

BLACK BATT.



AGM LEAD ACID | HYBRID GEL | ELECTRICAL VEHICLE BATTERIES

Type	Model	Description	Dimensions (mm)				Weight	Terminal Type
			Length	Width	Height	Total Height	kg	
AGM Lead Acid Battery	BC1.3-12	12V 1.3Ah	97	43	52	58	0.52	T1
	BC2.3-12	12V 2.3Ah	178	35	60	66	0.80	T1
	BC4.5-12	12V 4.5Ah	90	70	101	107	1.35	T2
	BC E7-12	12V 6Ah	151	65	93	99	1.70	T1
	BC7-12	12V 7Ah	151	65	93	99	2.02	T2
	BC7.2-12	12V 7.2Ah	151	65	93	99	2.22	T2
	BC9-12	12V 9Ah	151	65	93	99	2.30	T2
	BC9.2-12	12V 9Ah	151	65	93	99	2.45	T2
	BC12-12	12V 12Ah	151	98	95	101	3.10	T2
	BC18-12	12V 18Ah	181	76	167	167	4.70	T12
	BC20-12	12V 20Ah	181	76	167	167	5.00	T12
	BC26-12	12V 26Ah	166	175	125	125	7.20	T12
	BC40-12	12V 40Ah	197	165	170	170	12.00	T6 (M6)
	BC55-12	12V 55Ah	257	132	200	200	15.70	T6 (M6)
	BC70-12	12V 70Ah	348	167	178	178	18.60	T6 (M6)
	BC80-12	12V 80Ah	260	168	208	214	21.40	T6 (M6)
	BC100-12	12V 100Ah	330	173	213	220	28.00	T11 (M8)
	BC105-12	12V 100Ah	330	173	213	220	30.50	T11 (M8)
	BC150-12	12V 150Ah	483	170	224	238	41.50	T11 (M8)
	BC200-12	12V 200Ah	522	240	218	224	57.40	T11 (M8)
Hybrid Gel Battery								
	BCG105-12	12V 105Ah	330	173	212	218	28.20	T11 (M8)
	BCG150-12	12V 150Ah	483	170	238	238	43.60	T11 (M8)
	BCG200-12	12V 200Ah	522	240	218	224	57.90	T11 (M8)
Electrical Vehicle Battery								
	BC14Ah-6 DZF	12V 15Ah	151	99	98	98	4.00	T15-1 (M5)
	BC24Ah-6 DZF	12V 25Ah	181	77	170	170	6.40	T15 (M5)
	BC80Ah-6 EVF	12V 80Ah	223	123	175	175	13.40	T12-A (M6)
	BC100Ah-6 EVF	12V 100Ah	224	150	177	177	16,8	T12-A (M6)
	BC100-12 MDC	12V 100Ah	260	168	211	214	25,8	T6 (M6)
	BC115-12 MDC	12V 115Ah	330	173	212	220	31.4	T11 (M8)
	BC245-6 MDC	6V 245Ah	243	187,5	275	275	32,4	T11 (M8)

BC1.3-12 | 12V 1.3Ah

Valve Regulated Lead Acid Battery

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Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	1.3Ah
Dimensions	Length 97 ± 3 mm (3.82 inches)
	Width 43 ± 3 mm (1.69 inches)
	Container Height 52 ± 3 mm (2.05 inches)
	Total Height 58 ± 3 mm (2.28 inches)
Approximate Weight	0.52 kg ± 5% (1.15 lbs)
Short-circuit current	33.6A
Internal Resistance (25°C)	Approx. 145mΩ (fully charged)
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3.73	2.28	1.78	1.48	1.10	0.813	0.714	0.523	0.411	0.296	0.236	0.201	0.172	0.136	0.111	0.059
1.80V/cell	4.01	2.42	1.86	1.54	1.14	0.835	0.731	0.534	0.418	0.301	0.240	0.204	0.175	0.138	0.112	0.059
1.75V/cell	4.23	2.52	1.92	1.59	1.17	0.853	0.746	0.543	0.426	0.306	0.243	0.207	0.177	0.139	0.113	0.060
1.70V/cell	4.43	2.62	1.99	1.63	1.20	0.872	0.760	0.553	0.432	0.311	0.246	0.209	0.179	0.141	0.115	0.060
1.67V/cell	4.58	2.69	2.04	1.67	1.22	0.886	0.771	0.560	0.437	0.314	0.249	0.211	0.181	0.142	0.115	0.061
1.60V/cell	4.86	2.80	2.11	1.72	1.25	0.908	0.789	0.572	0.446	0.319	0.253	0.215	0.183	0.144	0.117	0.062

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	7.06	4.34	3.40	2.86	2.13	1.58	1.39	1.02	0.804	0.583	0.465	0.397	0.341	0.269	0.220	0.117
1.80V/cell	7.52	4.57	3.55	2.96	2.19	1.61	1.42	1.04	0.817	0.591	0.471	0.402	0.345	0.273	0.223	0.119
1.75V/cell	7.84	4.72	3.64	3.02	2.23	1.64	1.44	1.05	0.830	0.599	0.477	0.407	0.349	0.275	0.225	0.120
1.70V/cell	8.13	4.87	3.74	3.09	2.28	1.67	1.46	1.07	0.840	0.607	0.483	0.412	0.353	0.278	0.227	0.121
1.67V/cell	8.34	4.98	3.82	3.15	2.32	1.70	1.48	1.08	0.848	0.612	0.487	0.415	0.356	0.280	0.229	0.122
1.60V/cell	8.68	5.13	3.92	3.23	2.37	1.73	1.51	1.10	0.862	0.621	0.494	0.420	0.360	0.284	0.232	0.123

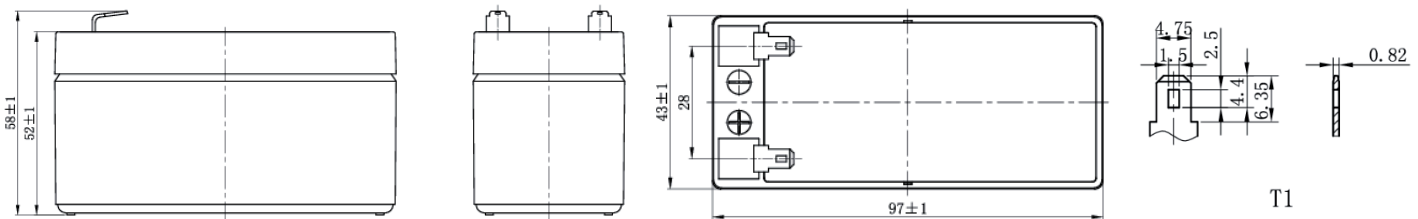
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BC1.3-12 | 12V 1.3Ah

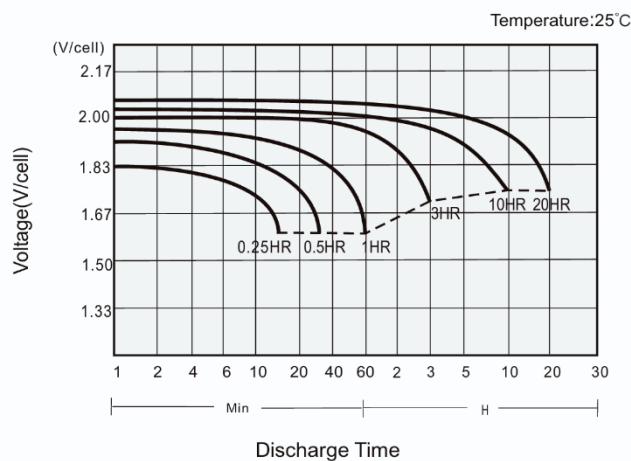
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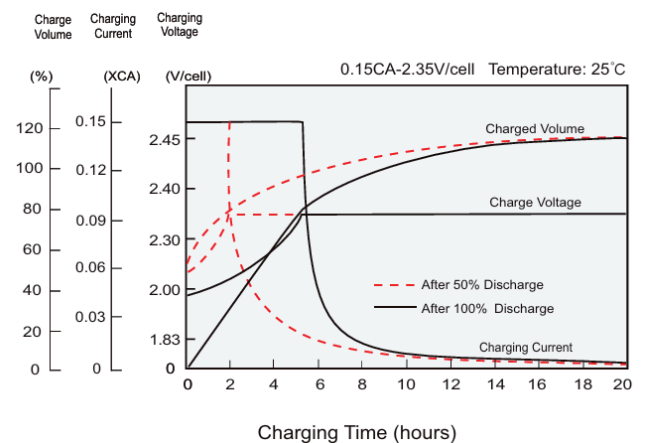
Dimensions | Terminal Type (unit:mm)



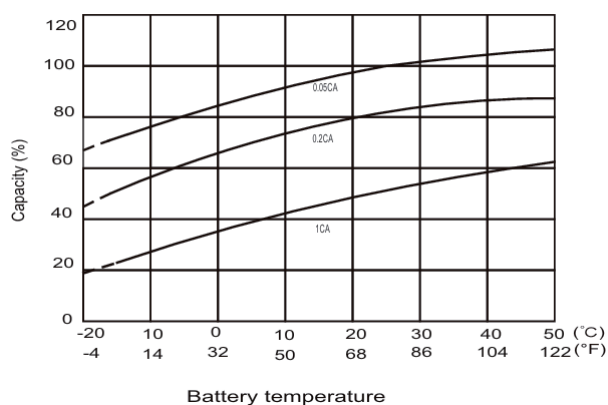
Discharge Characteristics



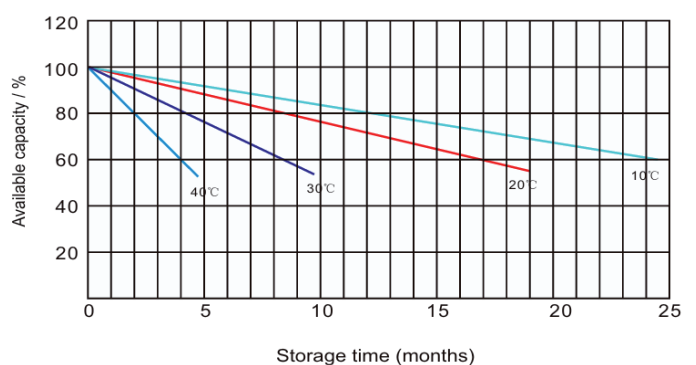
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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BC2.3-12 | 12V 2.3Ah

Valve Regulated Lead Acid Battery

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Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	2.3Ah
Dimensions	Length 178 ± 3 mm (7.01 inches)
	Width 35 ± 3 mm (1.38 inches)
	Container Height 60 ± 3 mm (2.36 inches)
	Total Height 66 ± 3 mm (2.60 inches)
Approximate Weight	0.80 kg ± 5% (1.76 lbs)
Short-circuit current	64.4A
Internal Resistance (25°C)	Approx. 56mΩ (fully charged)
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	6.69	4.85	3.74	3.08	2.32	1.73	1.38	1.03	0.827	0.606	0.488	0.399	0.339	0.260	0.211	0.113
1.80V/cell	7.25	5.09	3.88	3.18	2.37	1.76	1.42	1.05	0.840	0.616	0.494	0.410	0.343	0.263	0.214	0.114
1.75V/cell	7.84	5.34	4.02	3.27	2.44	1.80	1.44	1.06	0.853	0.625	0.502	0.415	0.349	0.267	0.216	0.115
1.70V/cell	8.43	5.59	4.17	3.37	2.49	1.84	1.47	1.08	0.867	0.634	0.508	0.420	0.353	0.270	0.219	0.116
1.67V/cell	8.77	5.74	4.25	3.43	2.52	1.86	1.48	1.09	0.875	0.639	0.512	0.427	0.358	0.273	0.221	0.117
1.60V/cell	9.56	6.09	4.45	3.56	2.60	1.90	1.52	1.11	0.893	0.652	0.522	0.431	0.364	0.276	0.224	0.118

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	12.70	9.28	7.17	5.93	4.48	3.35	2.70	2.00	1.62	1.19	0.960	0.813	0.681	0.516	0.420	0.225
1.80V/cell	13.70	9.69	7.42	6.09	4.58	3.42	2.75	2.03	1.64	1.20	0.972	0.822	0.689	0.521	0.425	0.228
1.75V/cell	14.70	10.10	7.64	6.25	4.66	3.47	2.78	2.05	1.66	1.23	0.984	0.832	0.697	0.527	0.430	0.229
1.70V/cell	15.70	10.50	7.87	6.40	4.75	3.52	2.82	2.09	1.68	1.24	1.00	0.842	0.704	0.533	0.434	0.232
1.67V/cell	16.20	10.80	8.02	6.49	4.80	3.55	2.84	2.11	1.69	1.25	1.00	0.847	0.710	0.537	0.437	0.232
1.60V/cell	17.60	11.40	8.32	6.71	4.92	3.63	2.90	2.14	1.72	1.27	1.02	0.860	0.720	0.545	0.444	0.235

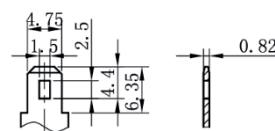
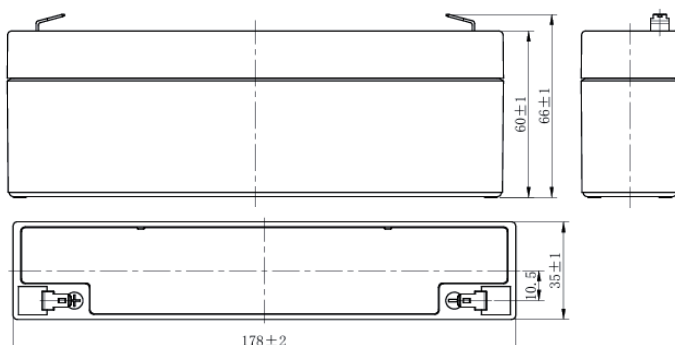
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BC2.3-12 | 12V 2.3Ah

Valve Regulated Lead Acid Battery

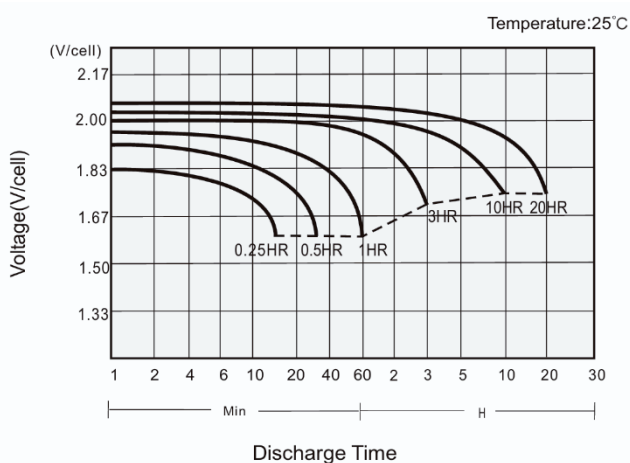
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Dimensions | Terminal Type (unit:mm)

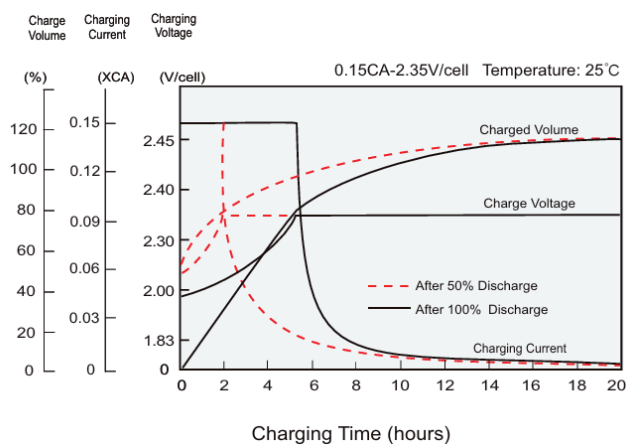


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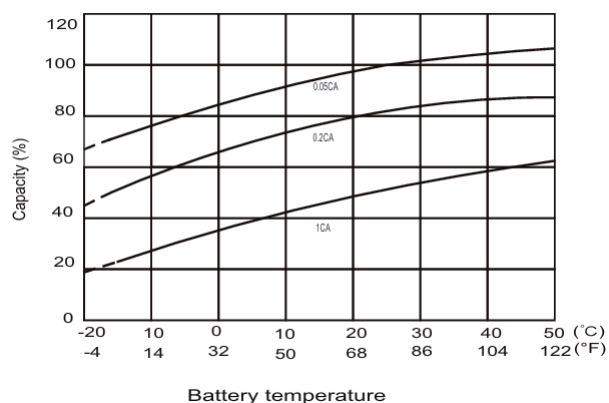
Discharge Characteristics



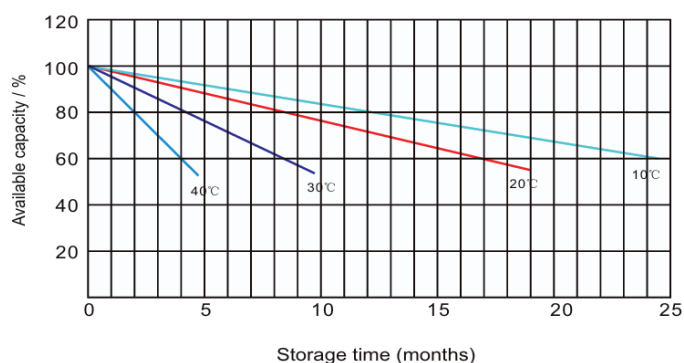
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC4.5-12 | 12V 4.5Ah

Valve Regulated Lead Acid Battery

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Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	4.5Ah
Dimensions	Length 90 ± 3 mm (3.54 inches)
	Width 70 ± 3 mm (2.68 inches)
	Container Height 101 ± 3 mm (3.98 inches)
	Total Height 107 ± 3 mm (4.21 inches)
Approximate Weight	1.35 kg ± 5% (2.95 lbs)
Short-circuit current	126A
Internal Resistance (25°C)	Approx. 48mΩ (fully charged)
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	11.3	8.26	6.55	5.35	4.07	2.99	2.44	1.84	1.53	1.09	0.876	0.744	0.637	0.500	0.409	0.220
1.80V/cell	12.2	8.69	6.81	5.51	4.17	3.04	2.48	1.87	1.56	1.11	0.888	0.755	0.645	0.507	0.413	0.222
1.75V/cell	13.1	9.10	7.06	5.68	4.27	3.11	2.53	1.90	1.58	1.13	0.900	0.765	0.653	0.513	0.419	0.225
1.70V/cell	14.1	9.50	7.31	5.84	4.37	3.16	2.57	1.94	1.61	1.14	0.910	0.775	0.662	0.519	0.424	0.227
1.67V/cell	14.8	9.80	7.46	5.95	4.43	3.20	2.60	1.95	1.62	1.15	0.920	0.780	0.667	0.523	0.427	0.229
1.60V/cell	16.0	10.4	7.80	6.17	4.56	3.29	2.66	2.00	1.66	1.17	0.940	0.795	0.679	0.532	0.433	0.231

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	21.3	15.8	12.6	10.3	7.86	5.79	4.74	3.59	3.01	2.15	1.73	1.47	1.26	0.990	0.812	0.489
1.80V/cell	23.0	16.5	13.1	10.5	8.02	5.89	4.82	3.65	3.04	2.18	1.75	1.49	1.28	1.01	0.821	0.494
1.75V/cell	24.7	17.2	13.4	10.8	8.18	5.98	4.89	3.69	3.09	2.21	1.76	1.50	1.29	1.02	0.831	0.499
1.70V/cell	26.4	17.9	13.9	11.1	8.33	6.07	4.96	3.74	3.12	2.23	1.79	1.52	1.31	1.03	0.840	0.504
1.67V/cell	27.4	18.4	14.0	11.3	8.42	6.13	5.00	3.77	3.15	2.25	1.80	1.53	1.31	1.04	0.845	0.507
1.60V/cell	29.5	19.3	14.6	11.6	8.63	6.26	5.09	3.83	3.20	2.29	1.83	1.56	1.33	1.05	0.858	0.515

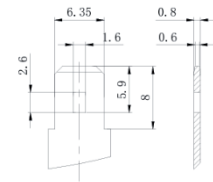
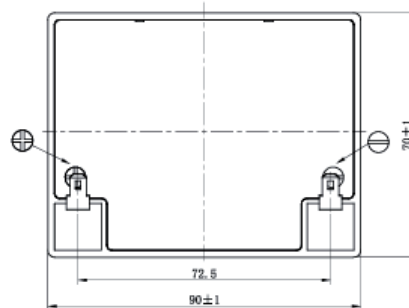
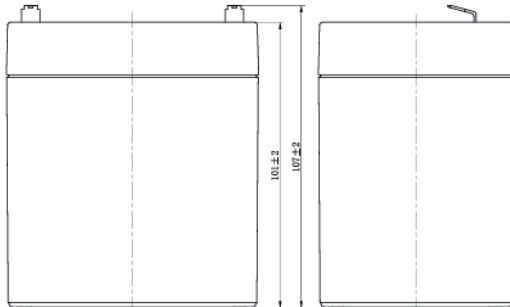
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BC4.5-12 | 12V 4.5Ah

Valve Regulated Lead Acid Battery

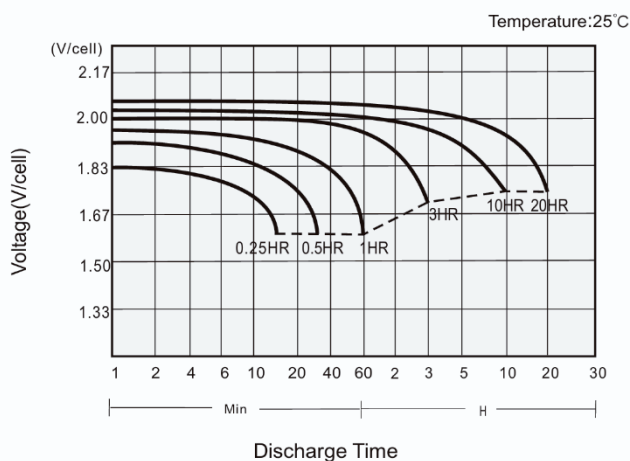
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Dimensions | Terminal Type (unit:mm)

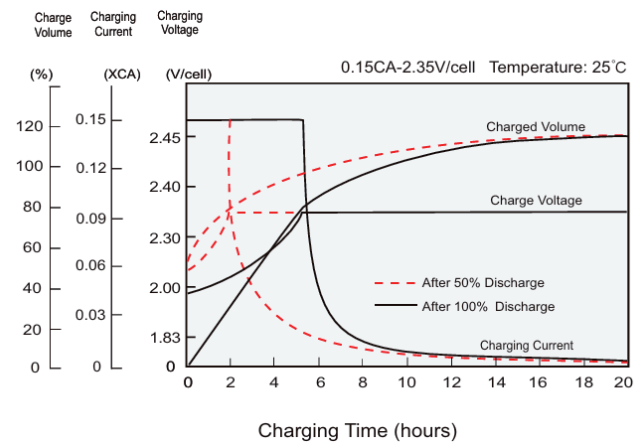


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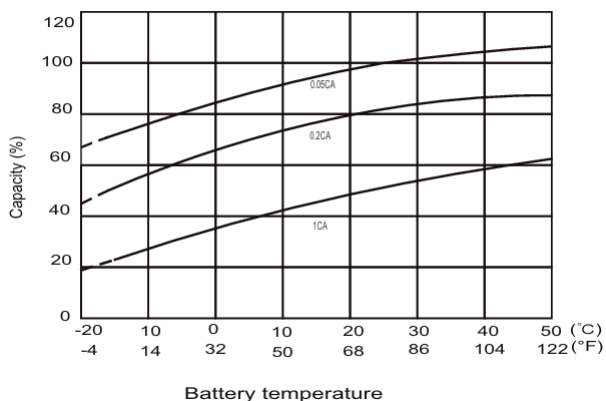
Discharge Characteristics



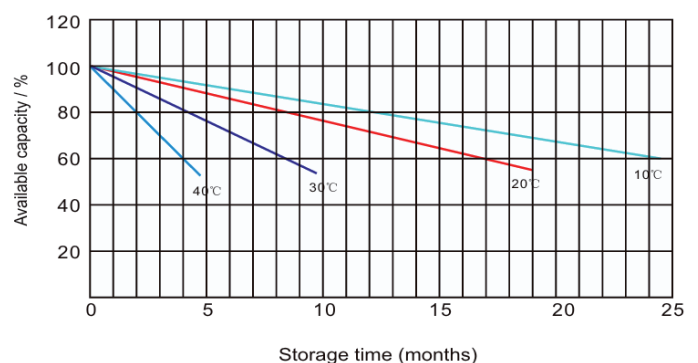
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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BC E7-12 | 12V 7Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	7Ah
Dimensions	Length 151 ± 3 mm (5.94 inches)
	Width 65 ± 3 mm (2.56 inches)
	Container Height 93 ± 3 mm (3.68 inches)
	Total Height 99 ± 3 mm (3.92 inches)
Approximate Weight	1.70 kg ± 5% (3.75 lbs)
Short-circuit current	168A
Internal Resistance (25°C)	Approx. 27mΩ (fully charged)
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Applications	Alarm battery, fire protection etc. BC E7-12 model is not suitable for UPS usage
Designed floating life (20°C)	5 years

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.7	12.3	9.93	8.10	6.02	4.42	3.61	2.64	2.07	1.49	1.18	1.01	0.860	0.676	0.546	0.294
1.80V/cell	18.1	12.9	10.3	8.35	6.18	4.51	3.68	2.68	2.10	1.51	1.20	1.02	0.871	0.684	0.552	0.297
1.75V/cell	19.6	13.6	10.7	8.60	6.32	4.60	3.75	2.73	2.13	1.53	1.21	1.03	0.882	0.692	0.559	0.300
1.70V/cell	21.1	14.2	11.1	8.86	6.47	4.69	3.81	2.77	2.17	1.55	1.23	1.05	0.894	0.701	0.566	0.303
1.67V/cell	21.9	14.6	11.3	9.01	6.56	4.74	3.85	2.80	2.19	1.57	1.24	1.05	0.900	0.706	0.570	0.305
1.60V/cell	23.9	15.5	11.8	9.36	6.76	4.87	3.94	2.86	2.23	1.60	1.26	1.07	0.916	0.718	0.579	0.309

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	31.8	23.5	19.1	15.6	11.6	8.58	7.03	5.15	4.05	2.92	2.33	1.98	1.70	1.34	1.08	0.588
1.80V/cell	34.3	24.6	19.7	16.0	11.9	8.72	7.14	5.22	4.10	2.96	2.36	2.01	1.72	1.35	1.10	0.594
1.75V/cell	36.8	25.7	20.3	16.4	12.1	8.86	7.24	5.29	4.15	3.00	2.39	2.03	1.74	1.37	1.11	0.600
1.70V/cell	39.3	26.7	20.9	16.8	12.3	8.99	7.34	5.37	4.21	3.03	2.41	2.06	1.76	1.39	1.12	0.606
1.67V/cell	40.7	27.3	21.3	17.1	12.5	9.07	7.40	5.41	4.24	3.06	2.43	2.07	1.77	1.40	1.13	0.610
1.60V/cell	43.9	28.8	22.1	17.6	12.8	9.26	7.54	5.50	4.31	3.11	2.47	2.10	1.80	1.42	1.15	0.619



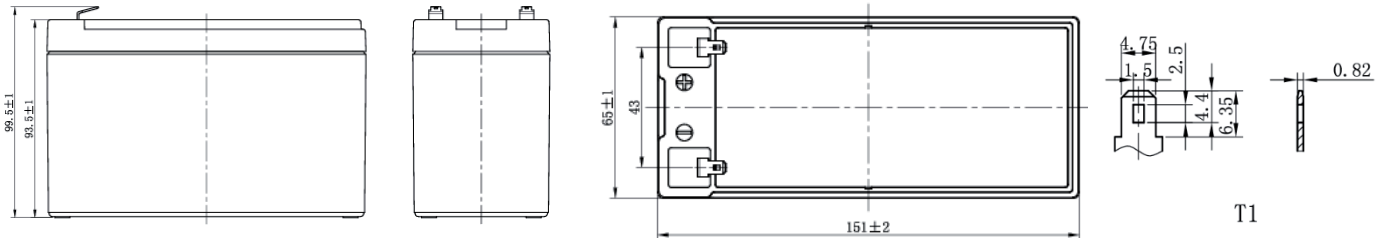
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC E7-12 | 12V 7Ah

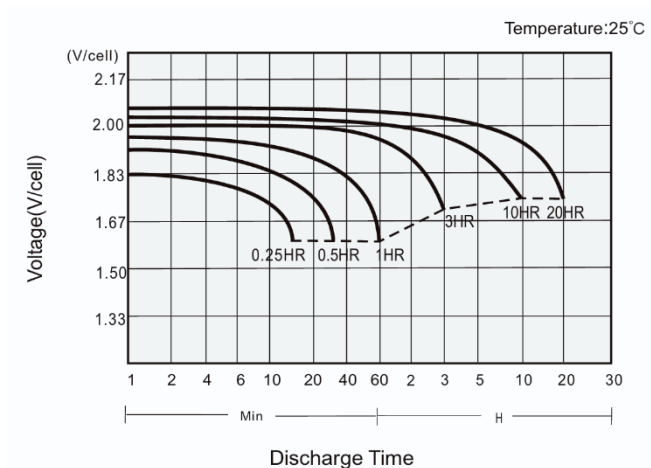
Valve Regulated Lead Acid Battery

BLACK BATT.

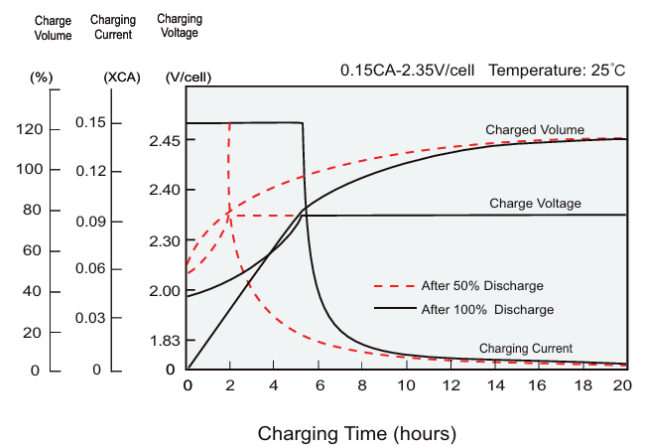
Dimensions | Terminal Type (unit:mm)



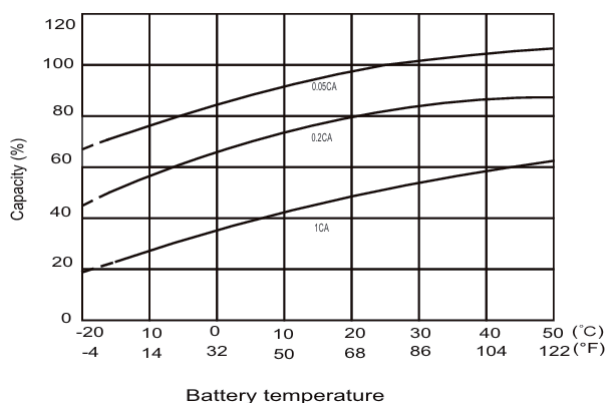
Discharge Characteristics



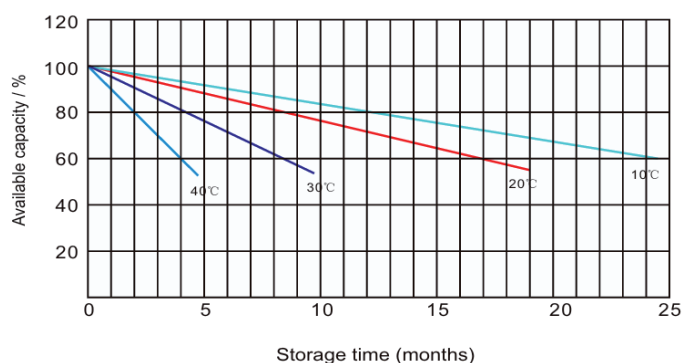
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC7-12 | 12V 7Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	7Ah
Dimensions	Length 151 ± 3 mm (5.94 inches)
	Width 65 ± 3 mm (2.56 inches)
	Container Height 93 ± 3 mm (3.68 inches)
	Total Height 99 ± 3 mm (3.92 inches)
Approximate Weight	2.02 kg ± 3% (4.46 lbs)
Short-circuit current	196A
Internal Resistance (25°C)	Approx. 32mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	17.0	12.5	9.90	8.10	6.12	4.64	3.91	2.90	2.38	1.72	1.36	1.16	0.990	0.780	0.637	0.343
1.80V/cell	18.5	13.2	10.3	8.35	6.28	4.73	3.99	2.95	2.41	1.74	1.38	1.18	1.01	0.790	0.644	0.347
1.75V/cell	19.9	13.8	10.7	8.60	6.43	4.83	4.06	3.00	2.45	1.77	1.40	1.19	1.02	0.800	0.653	0.350
1.70V/cell	21.4	14.4	11.1	8.86	6.57	4.92	4.13	3.05	2.49	1.79	1.42	1.21	1.03	0.809	0.660	0.354
1.67V/cell	22.3	14.8	11.3	9.01	6.67	4.98	4.17	3.08	2.51	1.81	1.43	1.22	1.04	0.816	0.665	0.356
1.60V/cell	24.3	15.7	11.8	9.40	6.87	5.11	4.27	3.14	2.56	1.84	1.46	1.24	1.06	0.829	0.675	0.361

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	32.3	23.9	19.1	15.6	11.8	9.01	7.61	5.67	4.65	3.37	2.69	2.29	1.96	1.55	1.27	0.686
1.80V/cell	34.8	25.0	19.7	16.0	12.1	9.15	7.73	5.74	4.71	3.42	2.72	2.32	1.99	1.57	1.28	0.693
1.75V/cell	37.4	26.1	20.3	16.4	12.3	9.30	7.84	5.82	4.77	3.46	2.76	2.35	2.01	1.58	1.29	0.700
1.70V/cell	39.9	27.2	20.9	16.8	12.5	9.40	7.95	5.90	4.84	3.50	2.79	2.37	2.03	1.60	1.31	0.707
1.67V/cell	41.4	27.8	21.3	17.1	12.7	9.50	8.02	5.95	4.87	3.53	2.81	2.39	2.05	1.61	1.32	0.712
1.60V/cell	44.7	29.2	22.1	17.6	13.0	9.70	8.17	6.05	4.95	3.59	2.85	2.43	2.08	1.64	1.34	0.722

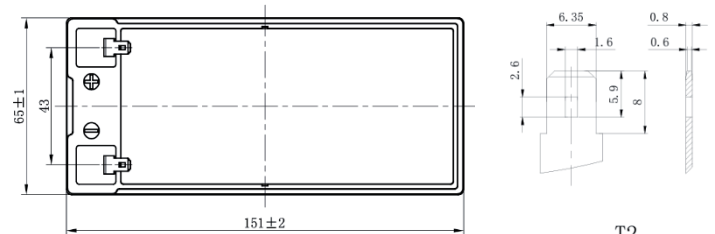
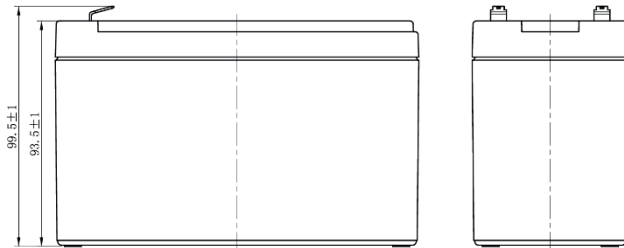
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BC7-12 | 12V 7Ah

Valve Regulated Lead Acid Battery

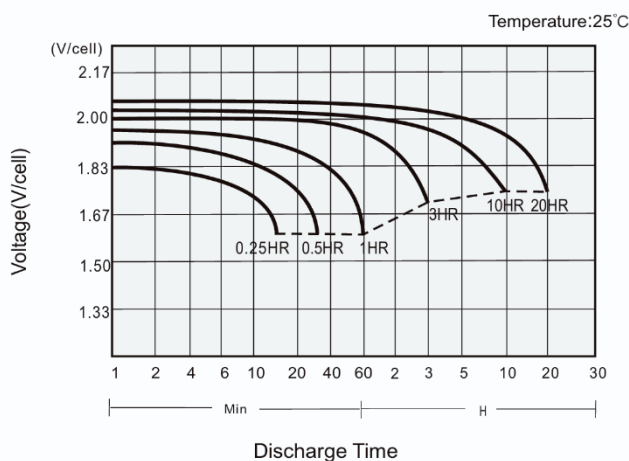
BLACK BATT.

Dimensions | Terminal Type (unit:mm)

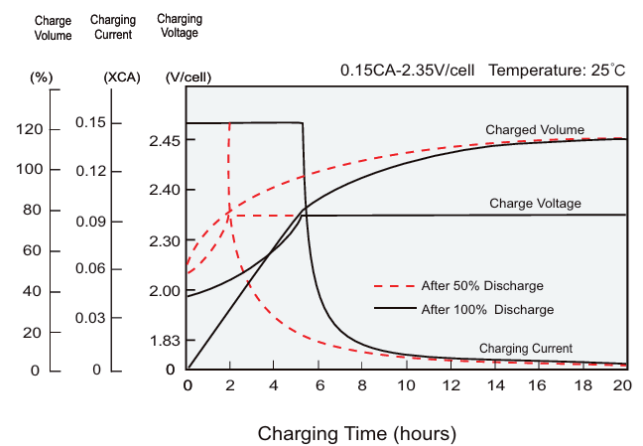


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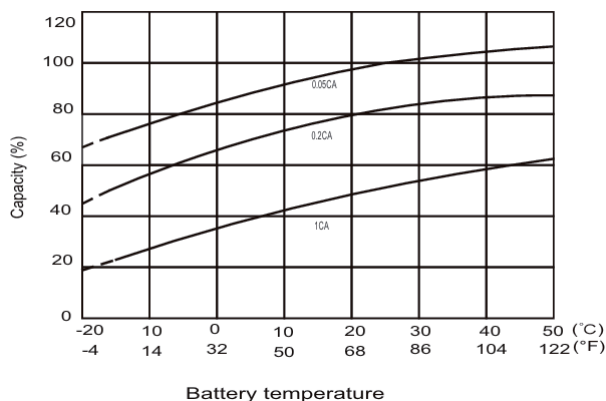
Discharge Characteristics



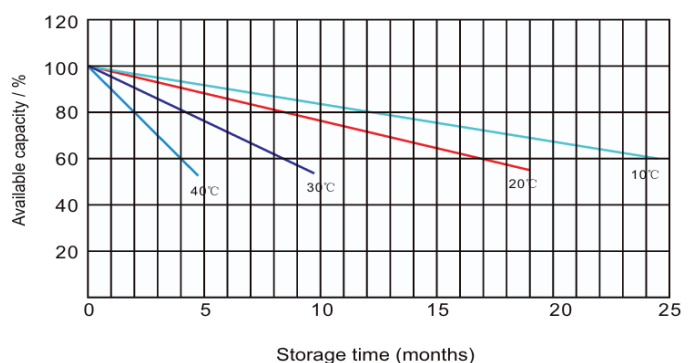
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC7.2-12 | 12V 7.2Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	7.2Ah
Dimensions	Length 151 ± 3 mm (5.94 inches)
	Width 65 ± 3 mm (2.56 inches)
	Container Height 93 ± 3 mm (3.68 inches)
	Total Height 99 ± 3 mm (3.92 inches)
Approximate Weight	2.22 kg ± 3% (4.90 lbs)
Short-circuit current	210A
Internal Resistance (25°C)	Approx.23mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	24.4	16.5	12.3	10.1	7.40	5.41	4.43	3.25	2.57	1.85	1.48	1.26	1.08	0.848	0.693	0.367
1.80V/cell	26.3	17.5	12.9	10.5	7.63	5.56	4.54	3.31	2.62	1.88	1.50	1.27	1.09	0.860	0.702	0.371
1.75V/cell	27.7	18.2	13.3	10.7	7.83	5.68	4.63	3.37	2.66	1.91	1.52	1.29	1.11	0.869	0.709	0.375
1.70V/cell	29.0	18.9	13.8	11.1	8.03	5.80	4.72	3.43	2.70	1.94	1.54	1.31	1.12	0.878	0.717	0.378
1.67V/cell	30.0	19.5	14.1	11.3	8.17	5.90	4.79	3.48	2.73	1.96	1.55	1.32	1.13	0.885	0.722	0.381
1.60V/cell	31.8	20.3	14.6	11.6	8.39	6.04	4.90	3.55	2.79	2.00	1.58	1.34	1.14	0.898	0.731	0.385

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	46.2	31.4	23.5	19.4	14.3	10.5	8.62	6.34	5.03	3.64	2.91	2.48	2.13	1.68	1.38	0.733
1.80V/cell	49.2	33.1	24.5	20.0	14.7	10.7	8.80	6.45	5.11	3.69	2.95	2.51	2.16	1.70	1.39	0.742
1.75V/cell	51.3	34.2	25.2	20.5	15.0	10.9	8.95	6.55	5.19	3.74	2.98	2.54	2.18	1.72	1.41	0.750
1.70V/cell	53.2	35.3	25.9	21.0	15.3	11.1	9.08	6.64	5.25	3.79	3.02	2.57	2.20	1.74	1.42	0.756
1.67V/cell	54.5	36.1	26.4	21.3	15.5	11.3	9.20	6.71	5.30	3.82	3.04	2.59	2.22	1.75	1.43	0.762
1.60V/cell	56.7	37.2	27.1	21.9	15.9	11.5	9.37	6.83	5.38	3.88	3.09	2.63	2.25	1.77	1.45	0.770

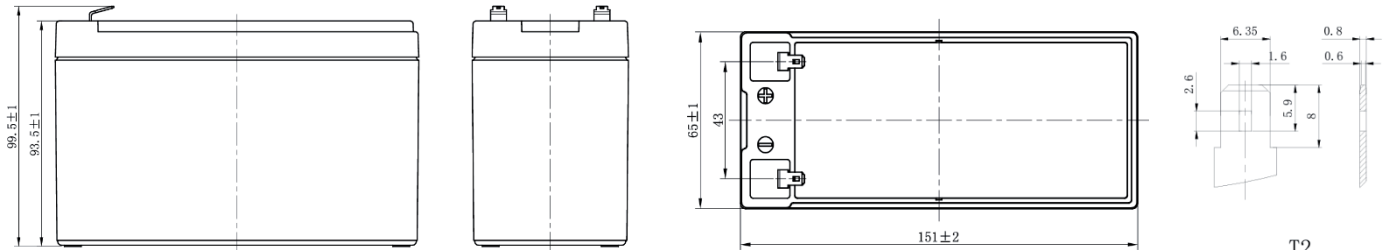
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BC7.2-12 | 12V 7.2Ah

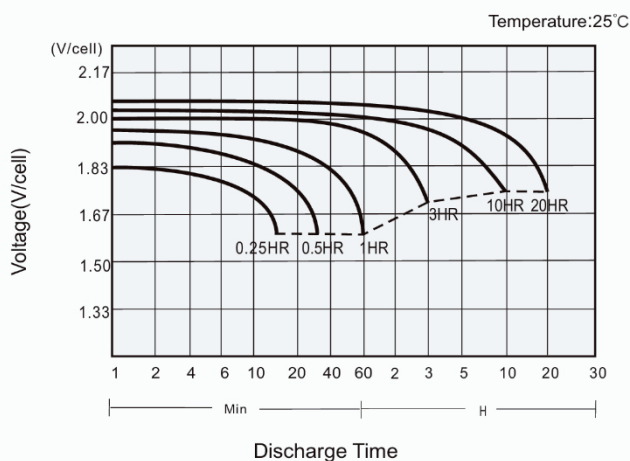
Valve Regulated Lead Acid Battery

BLACK BATT.

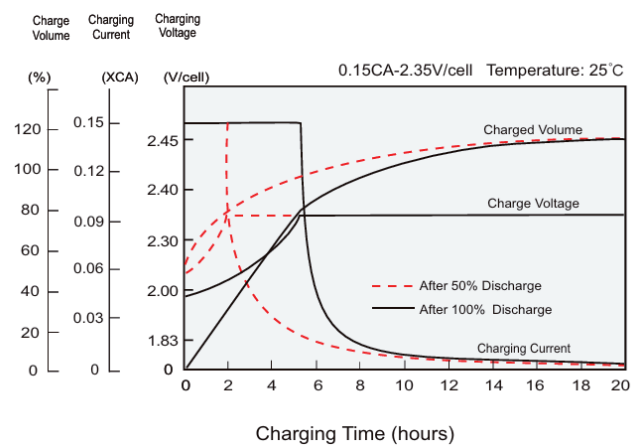
Dimensions | Terminal Type (unit:mm)



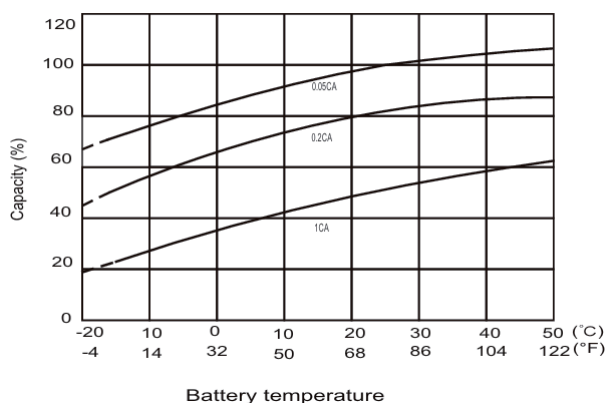
Discharge Characteristics



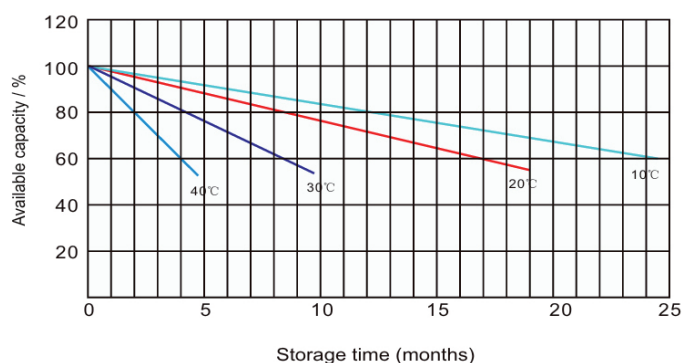
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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BC9-12 | 12V 9Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	8.5Ah
Dimensions	Length 151 ± 3 mm (5.94 inches)
	Width 65 ± 3 mm (2.56 inches)
	Container Height 93 ± 3 mm (3.68 inches)
	Total Height 99 ± 3 mm (3.92 inches)
Approximate Weight	2.30 kg ± 3% (5.07 lbs)
Short-circuit current	238A
Internal Resistance (25°C)	Approx. 18mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.6	13.2	11.1	9.42	7.04	5.23	4.22	3.33	2.52	1.87	1.52	1.29	1.12	0.884	0.730	0.403
1.80V/cell	22.2	15.2	12.4	10.4	7.70	5.63	4.54	3.63	2.69	1.99	1.60	1.36	1.17	0.932	0.769	0.412
1.75V/cell	24.8	16.5	13.4	11.0	8.03	5.84	4.70	3.79	2.76	2.04	1.63	1.39	1.19	0.949	0.782	0.425
1.70V/cell	27.1	17.9	14.1	11.5	8.33	6.04	4.84	3.94	2.84	2.08	1.67	1.41	1.21	0.962	0.792	0.426
1.67V/cell	29.4	18.8	14.6	11.9	8.61	6.23	4.99	4.03	2.89	2.13	1.69	1.44	1.23	0.973	0.800	0.430
1.60V/cell	31.0	19.6	15.1	12.2	8.85	6.38	5.10	4.14	2.96	2.16	1.73	1.46	1.25	0.983	0.807	0.433

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	35.1	25.1	21.3	18.2	13.8	10.3	8.32	6.59	4.97	3.72	3.02	2.59	2.25	1.78	1.47	0.814
1.80V/cell	41.4	28.7	23.7	20.0	15.0	11.0	8.91	7.12	5.31	3.94	3.19	2.72	2.36	1.87	1.54	0.829
1.75V/cell	46.0	31.1	25.4	21.1	15.5	11.4	9.23	7.35	5.44	4.01	3.23	2.75	2.38	1.89	1.56	0.843
1.70V/cell	49.3	33.1	26.3	21.8	16.0	11.7	9.40	7.58	5.54	4.09	3.27	2.77	2.41	1.90	1.57	0.846
1.67V/cell	52.7	34.4	27.0	22.2	16.3	11.9	9.60	7.71	5.60	4.14	3.30	2.80	2.42	1.91	1.58	0.848
1.60V/cell	54.3	34.9	27.5	22.4	16.5	12.1	9.70	7.80	5.68	4.17	3.34	2.83	2.44	1.92	1.59	0.850

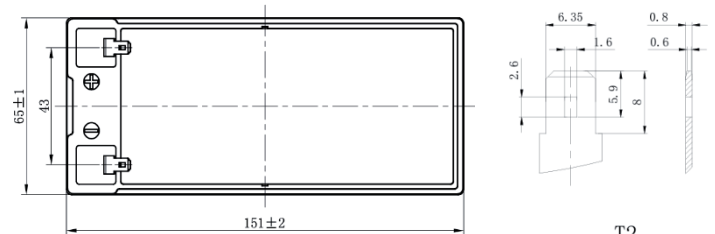
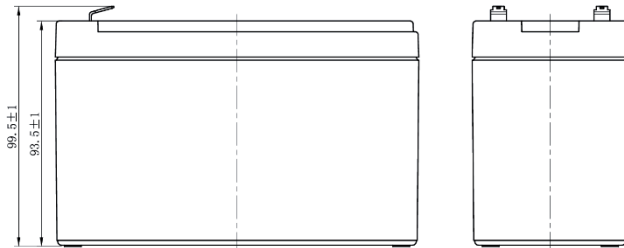
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC9-12 | 12V 9Ah

Valve Regulated Lead Acid Battery

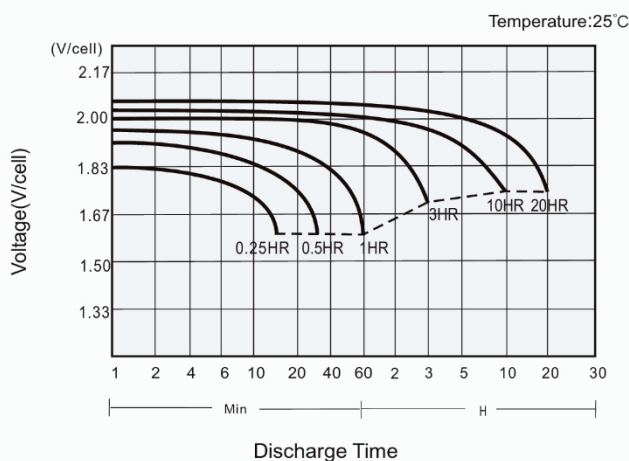
BLACK BATT.

Dimensions | Terminal Type (unit:mm)

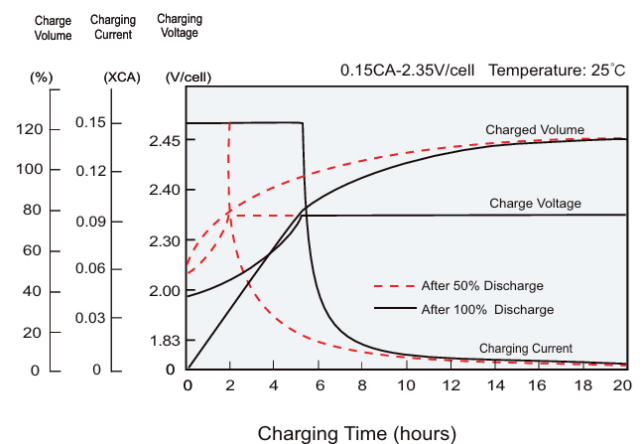


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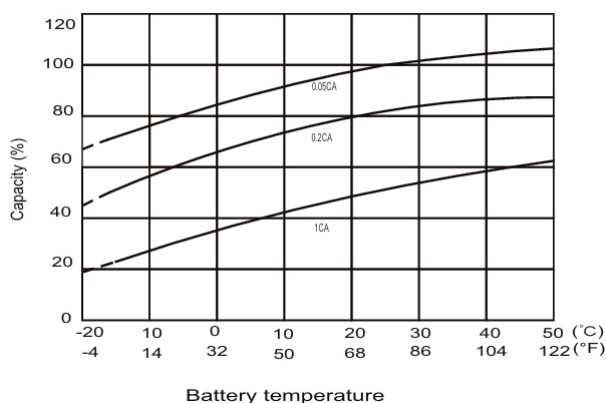
Discharge Characteristics



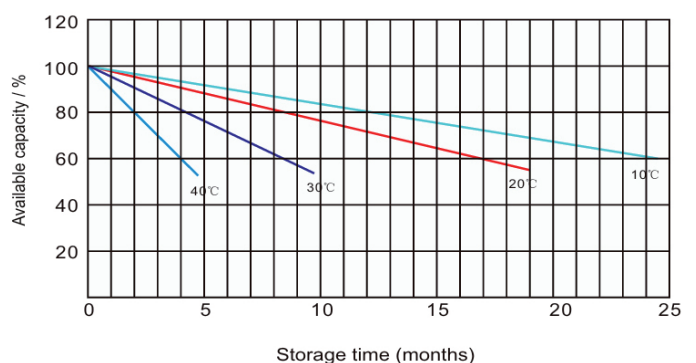
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC9.2-12 | 12V 9Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	9.2Ah
Dimensions	Length 151 ± 3 mm (5.94 inches)
	Width 65 ± 3 mm (2.56 inches)
	Container Height 93 ± 3 mm (3.68 inches)
	Total Height 99 ± 3 mm (3.92 inches)
Approximate Weight	2.40 kg ± 3% (5.30 lbs)
Short-circuit current	252A
Internal Resistance (25°C)	Approx. 17mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.2	20.7	16.1	12.9	9.34	6.72	5.41	3.92	3.08	2.22	1.77	1.51	1.29	1.02	0.832	0.440
1.80V/cell	32.4	21.9	16.9	13.4	9.63	6.90	5.54	4.00	3.14	2.26	1.80	1.53	1.31	1.03	0.843	0.445
1.75V/cell	34.2	22.8	17.4	13.8	9.88	7.05	5.66	4.08	3.19	2.30	1.82	1.55	1.33	1.04	0.851	0.450
1.70V/cell	35.8	23.7	18.0	14.2	10.1	7.21	5.76	4.15	3.24	2.33	1.85	1.57	1.34	1.05	0.860	0.454
1.67V/cell	37.0	24.4	18.5	14.5	10.3	7.32	5.85	4.20	3.28	2.35	1.86	1.58	1.35	1.06	0.866	0.457
1.60V/cell	39.3	25.4	19.1	14.9	10.6	7.50	5.98	4.29	3.34	2.40	1.90	1.61	1.37	1.08	0.877	0.462

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	57.1	39.4	30.8	24.8	18.1	13.0	10.5	7.66	6.03	4.37	3.49	2.98	2.55	2.02	1.65	0.880
1.80V/cell	60.8	41.4	32.1	25.7	18.5	13.3	10.8	7.79	6.13	4.43	3.53	3.02	2.59	2.04	1.67	0.890
1.75V/cell	63.3	42.8	33.0	26.2	18.9	13.6	10.9	7.91	6.22	4.49	3.58	3.05	2.62	2.06	1.69	0.900
1.70V/cell	65.7	44.2	33.9	26.9	19.3	13.8	11.1	8.03	6.30	4.55	3.62	3.09	2.64	2.08	1.71	0.907
1.67V/cell	67.4	45.2	34.6	27.4	19.6	14.0	11.2	8.11	6.36	4.59	3.65	3.11	2.67	2.10	1.72	0.914
1.60V/cell	70.1	46.5	35.6	28.0	20.0	14.3	11.4	8.30	6.46	4.66	3.71	3.15	2.70	2.13	1.74	0.924

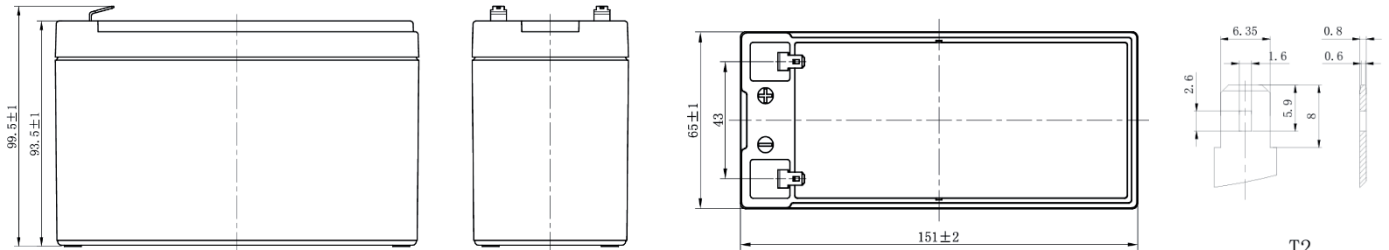
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC9.2-12 | 12V 9Ah

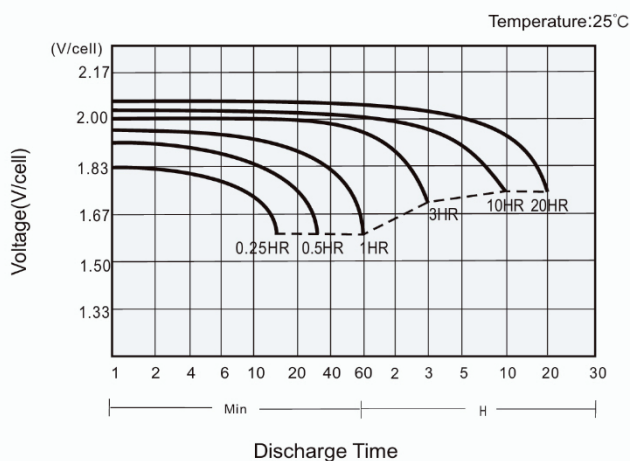
Valve Regulated Lead Acid Battery

BLACK BATT.

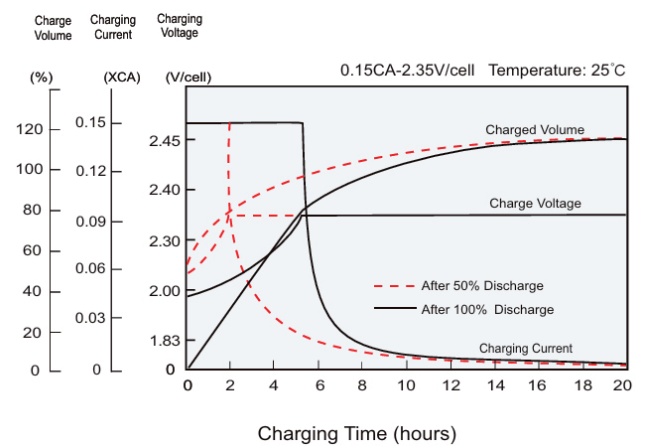
Dimensions | Terminal Type (unit:mm)



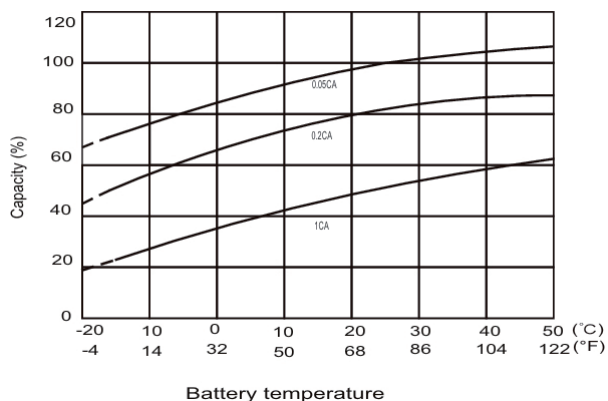
Discharge Characteristics



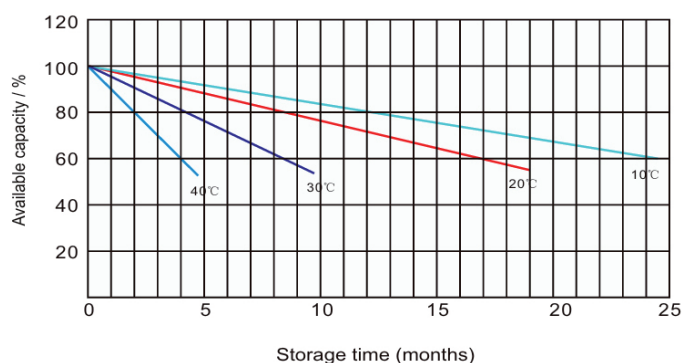
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC12-12 | 12V 12Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	12Ah
Dimensions	Length 151 ± 3 mm (5.94 inches)
	Width 98 ± 3 mm (3.86 inches)
	Container Height 95 ± 3 mm (3.74 inches)
	Total Height 101 ± 3 mm (3.98 inches)
Approximate Weight	3.10kg ± 3% (6.80 lbs)
Short-circuit current	336A
Internal Resistance (25°C)	Approx. 19mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.6	22.7	18.1	14.8	11.0	8.07	6.59	4.81	3.82	2.91	2.34	1.99	1.70	1.34	1.09	0.587
1.80V/cell	33.2	23.9	18.8	15.2	11.3	8.23	6.72	4.90	3.88	2.95	2.37	2.01	1.72	1.35	1.10	0.594
1.75V/cell	35.9	25.1	19.5	15.7	11.5	8.39	6.84	4.98	3.94	3.00	2.40	2.04	1.74	1.37	1.12	0.600
1.70V/cell	38.6	26.2	20.2	16.2	11.8	8.55	6.96	5.06	4.01	3.04	2.43	2.07	1.77	1.39	1.13	0.606
1.67V/cell	40.2	26.9	20.6	16.4	12.0	8.65	7.03	5.11	4.04	3.07	2.45	2.08	1.78	1.40	1.14	0.609
1.60V/cell	43.7	28.6	21.6	17.1	12.3	8.88	7.20	5.22	4.12	3.13	2.50	2.12	1.81	1.42	1.16	0.618

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	58.2	43.5	34.8	28.4	21.2	15.7	12.8	9.40	7.49	5.72	4.60	3.92	3.36	2.65	2.17	1.17
1.80V/cell	62.7	45.4	36.0	29.2	21.7	15.9	13.0	9.53	7.58	5.79	4.66	3.97	3.40	2.68	2.19	1.19
1.75V/cell	67.3	47.4	37.1	29.9	22.1	16.2	13.2	9.66	7.68	5.87	4.72	4.02	3.44	2.71	2.22	1.20
1.70V/cell	71.8	49.3	38.2	30.7	22.5	16.4	13.4	9.79	7.78	5.94	4.77	4.06	3.48	2.74	2.24	1.21
1.67V/cell	74.6	50.5	38.9	31.1	22.8	16.6	13.5	9.87	7.84	5.98	4.80	4.09	3.50	2.76	2.26	1.22
1.60V/cell	80.4	53.1	40.4	32.1	23.3	16.9	13.8	10.0	7.97	6.08	4.88	4.15	3.56	2.80	2.29	1.24

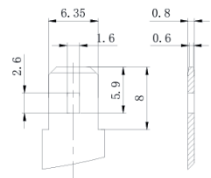
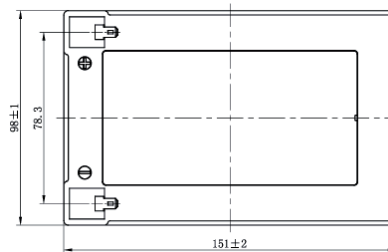
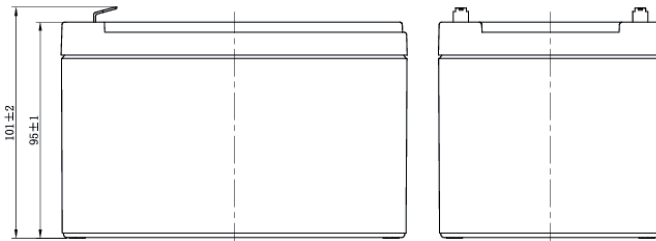
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC12-12 | 12V 12Ah

Valve Regulated Lead Acid Battery

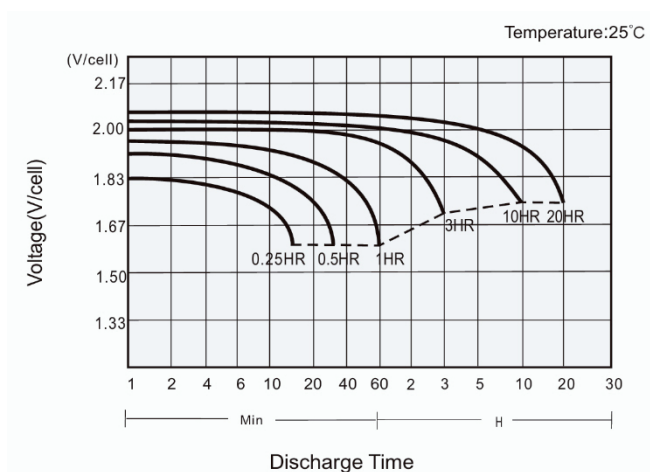
BLACK BATT.

Dimensions | Terminal Type (unit:mm)

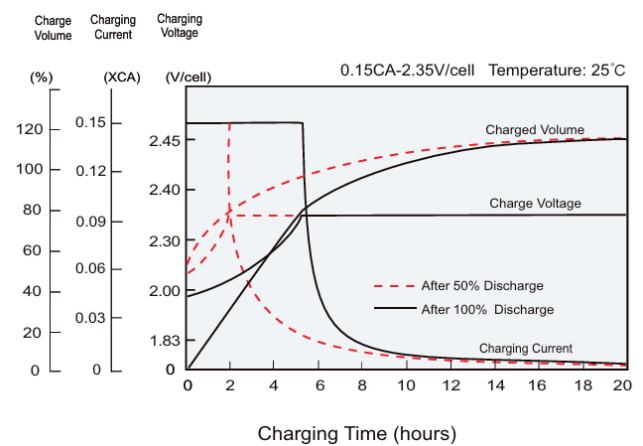


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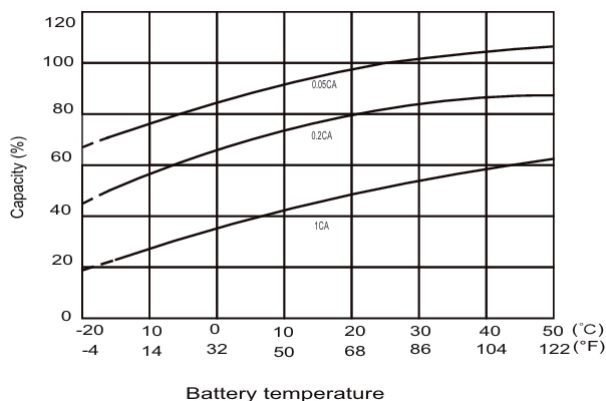
Discharge Characteristics



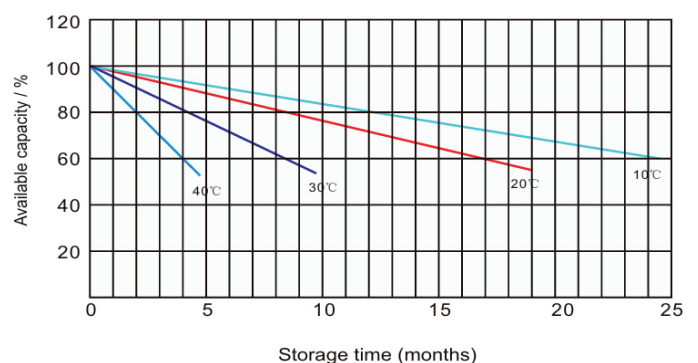
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC18-12 | 12V 18Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	18Ah
Dimensions	Length 181 ± 3 mm (7.15 inches)
	Width 76 ± 3 mm (3.00 inches)
	Container Height 167 ± 3 mm (6.59 inches)
	Total Height 167 ± 3 mm (6.59 inches)
Approximate Weight	4.70kg ± 3% (10.40 lbs)
Short-circuit current	504A
Internal Resistance (25°C)	Approx. 18mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	47.9	33.0	25.9	21.0	15.5	11.3	9.13	6.91	5.61	4.18	3.40	2.94	2.53	2.01	1.66	0.880
1.80V/cell	51.5	35.0	27.2	21.9	16.0	11.6	9.35	7.06	5.72	4.25	3.45	2.99	2.57	2.04	1.68	0.890
1.75V/cell	54.3	36.4	28.1	22.5	16.4	11.8	9.54	7.19	5.82	4.32	3.49	3.02	2.60	2.07	1.70	0.900
1.70V/cell	56.8	37.9	29.0	23.1	16.9	12.1	9.72	7.31	5.90	4.38	3.54	3.07	2.63	2.09	1.72	0.907
1.67V/cell	58.8	39.0	29.7	23.6	17.2	12.3	9.87	7.40	5.97	4.42	3.57	3.09	2.66	2.10	1.73	0.914
1.60V/cell	62.4	40.6	30.7	24.3	17.6	12.6	10.1	7.56	6.09	4.51	3.64	3.14	2.69	2.13	1.75	0.924

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	90.0	62.1	48.6	40.5	30.0	21.9	17.8	13.5	11.0	8.22	6.69	5.81	5.01	3.99	3.30	1.76
1.80V/cell	95.9	65.4	50.7	41.9	30.8	22.4	18.1	13.7	11.2	8.34	6.77	5.89	5.08	4.05	3.34	1.78
1.75V/cell	99.9	67.5	52.1	42.8	31.5	22.8	18.4	14.0	11.3	8.45	6.86	5.96	5.13	4.09	3.37	1.80
1.70V/cell	103.6	69.7	53.5	43.8	32.1	23.2	18.7	14.2	11.5	8.56	6.94	6.03	5.19	4.13	3.41	1.82
1.67V/cell	106.3	71.3	54.6	44.6	32.6	23.5	19.0	14.3	11.6	8.63	7.00	6.07	5.23	4.16	3.43	1.83
1.60V/cell	110.6	73.4	56.1	45.7	33.4	23.9	19.3	14.6	11.8	8.77	7.10	6.15	5.29	4.21	3.47	1.85

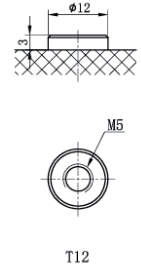
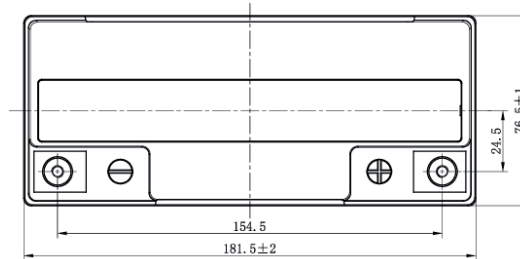
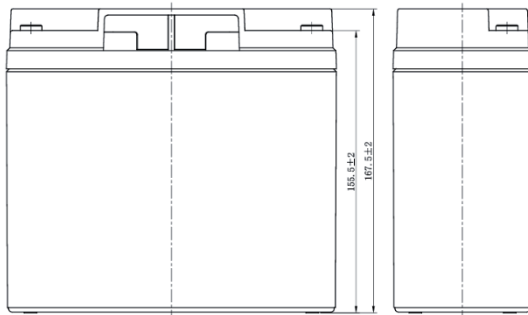
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC18-12 | 12V 18Ah

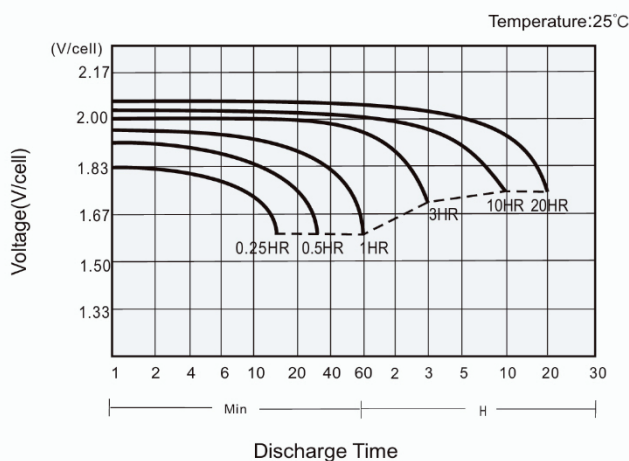
Valve Regulated Lead Acid Battery

BLACK BATT.

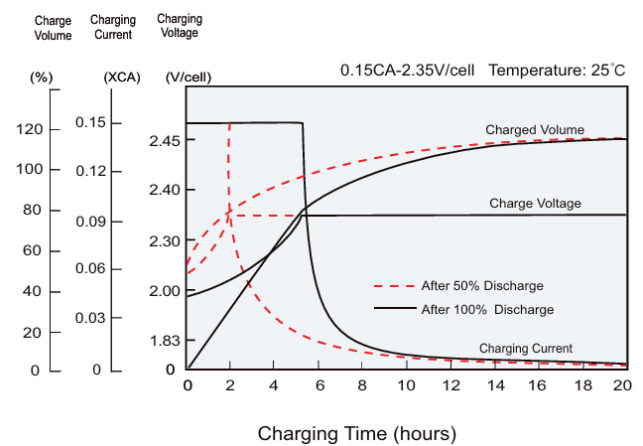
Dimensions | Terminal Type (unit:mm)



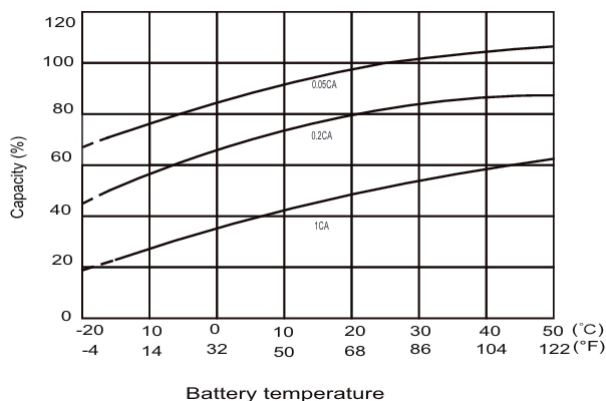
Discharge Characteristics



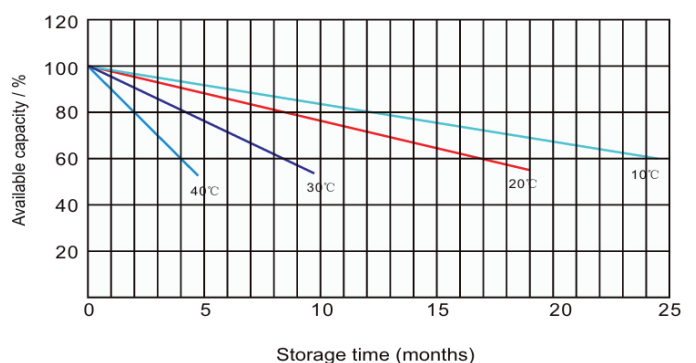
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC20-12 | 12V 20Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	20Ah
Dimensions	Length 181 ± 3 mm (7.15 inches)
	Width 76 ± 3 mm (3.00 inches)
	Container Height 167 ± 3 mm (6.59 inches)
	Total Height 167 ± 3 mm (6.59 inches)
Approximate Weight	5.00kg ± 3% (11.00 lbs)
Short-circuit current	560A
Internal Resistance (25°C)	Approx. 16mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	5 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	62.2	42.6	33.2	27.0	19.9	14.5	11.9	8.71	6.85	4.94	3.94	3.35	2.87	2.26	1.85	0.978
1.80V/cell	66.9	45.2	34.8	28.1	20.5	14.9	12.2	8.89	6.97	5.02	3.99	3.40	2.91	2.29	1.87	0.989
1.75V/cell	70.5	47.0	36.0	28.8	21.0	15.2	12.4	9.06	7.10	5.10	4.05	3.44	2.95	2.32	1.89	1.00
1.70V/cell	73.8	48.9	37.2	29.7	21.6	15.6	12.7	9.21	7.20	5.18	4.10	3.49	2.98	2.34	1.91	1.01
1.67V/cell	76.4	50.3	38.1	30.3	21.9	15.8	12.9	9.33	7.28	5.23	4.14	3.52	3.01	2.36	1.92	1.02
1.60V/cell	81.0	52.4	39.4	31.2	22.5	16.2	13.1	9.53	7.43	5.32	4.22	3.58	3.05	2.39	1.95	1.03

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	117.7	81.2	63.5	52.0	38.4	28.2	23.1	17.0	13.4	9.71	7.76	6.62	5.68	4.48	3.67	1.96
1.80V/cell	125.3	85.4	66.3	53.8	39.4	28.8	23.6	17.3	13.6	9.85	7.85	6.70	5.76	4.54	3.72	1.98
1.75V/cell	130.6	88.2	68.0	55.0	40.3	29.3	24.0	17.6	13.8	10.0	7.95	6.78	5.82	4.59	3.75	2.00
1.70V/cell	135.4	91.1	69.9	56.3	41.1	29.9	24.4	17.8	14.0	10.1	8.05	6.86	5.88	4.63	3.79	2.02
1.67V/cell	139.0	93.2	71.4	57.3	41.7	30.3	24.7	18.0	14.1	10.2	8.11	6.91	5.93	4.66	3.81	2.03
1.60V/cell	144.6	95.9	73.3	58.7	42.6	30.8	25.1	18.3	14.4	10.4	8.23	7.00	6.00	4.73	3.86	2.05

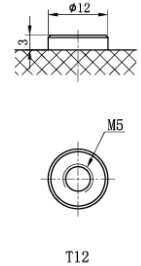
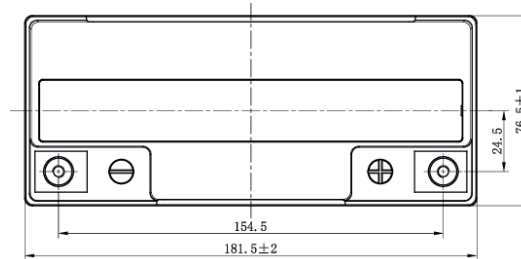
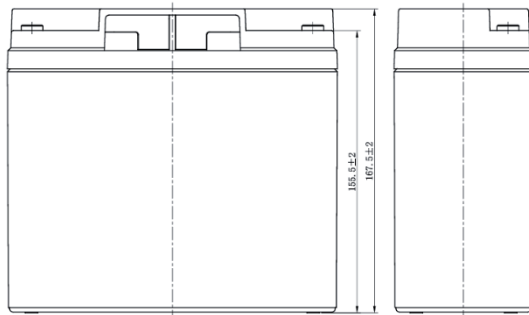
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC20-12 | 12V 20Ah

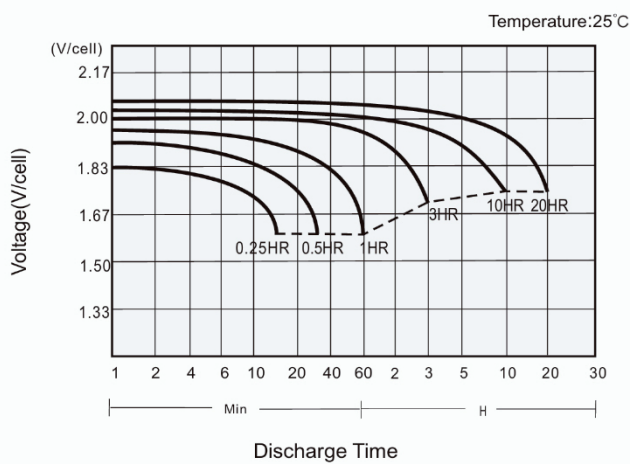
Valve Regulated Lead Acid Battery

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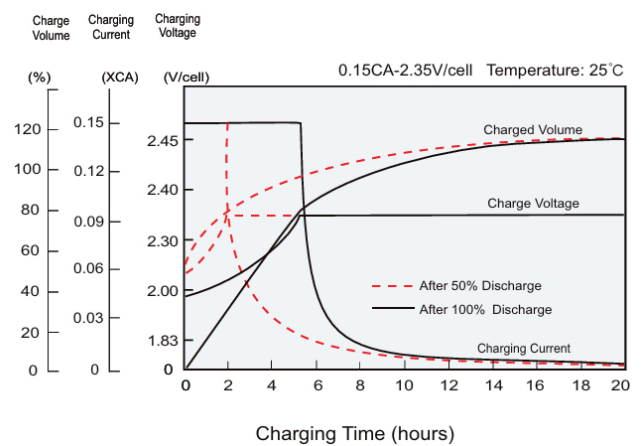
Dimensions | Terminal Type (unit:mm)



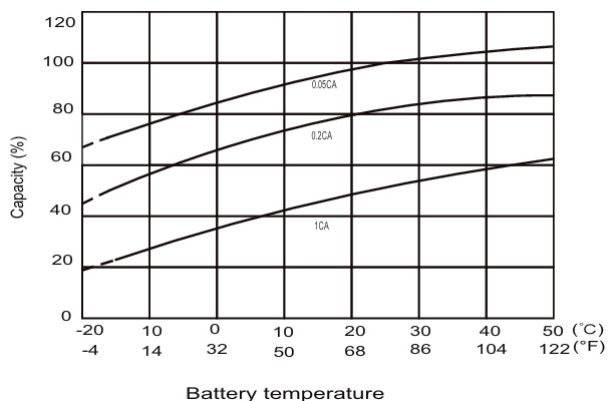
Discharge Characteristics



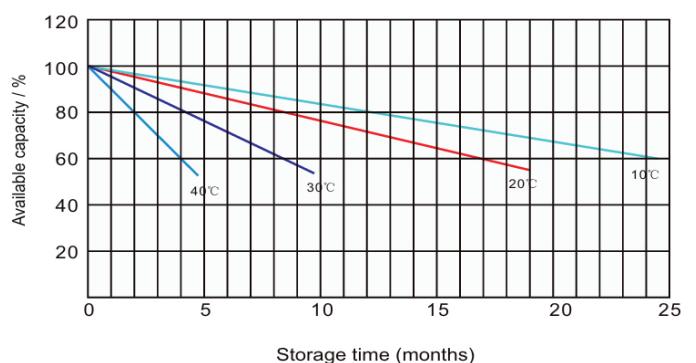
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC26-12 | 12V 26Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (20 hour rate)	26Ah
Dimensions	Length 166 ± 3 mm (6.54 inches)
	Width 175 ± 3 mm (6.89 inches)
	Container Height 125 ± 3 mm (4.92 inches)
	Total Height 125 ± 3 mm (4.92 inches)
Approximate Weight	7.50kg ± 3% (16.60 lbs)
Short-circuit current	670A
Internal Resistance (25°C)	Approx. 17mΩ
Design Life	10 years design life (25°C)
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	69.9	51.1	38.8	33.1	24.8	18.2	14.5	10.8	8.56	6.18	4.92	4.25	3.64	2.87	2.40	1.27
1.80V/cell	75.1	54.2	40.7	34.4	25.6	18.7	14.8	11.0	8.72	6.28	5.00	4.31	3.70	2.91	2.44	1.29
1.75V/cell	79.2	56.3	42.0	35.3	26.2	19.1	15.1	11.2	8.88	6.38	5.06	4.37	3.74	2.94	2.46	1.30
1.70V/cell	82.9	58.6	43.4	36.4	26.9	19.5	15.4	11.4	9.01	6.47	5.13	4.43	3.78	2.97	2.48	1.31
1.67V/cell	85.8	60.3	44.5	37.1	27.4	19.8	15.6	11.6	9.11	6.54	5.18	4.46	3.82	2.99	2.50	1.32
1.60V/cell	91.0	62.8	46.0	38.2	28.1	20.3	16.0	11.8	9.29	6.66	5.27	4.54	3.87	3.04	2.53	1.34

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	132.2	97.3	74.2	63.7	47.9	35.2	28.2	21.1	16.8	12.1	9.70	8.39	7.20	5.68	4.77	2.54
1.80V/cell	140.8	102.4	77.4	65.9	49.2	36.1	28.8	21.4	17.0	12.3	9.82	8.50	7.30	5.76	4.84	2.57
1.75V/cell	146.7	105.7	79.5	67.3	50.3	36.7	29.2	21.8	17.3	12.5	9.94	8.60	7.38	5.82	4.88	2.60
1.70V/cell	152.1	109.2	81.7	68.9	51.3	37.4	29.7	22.1	17.5	12.6	10.1	8.70	7.45	5.87	4.93	2.62
1.67V/cell	156.1	111.7	83.4	70.2	52.1	37.9	30.1	22.3	17.7	12.8	10.1	8.76	7.52	5.92	4.96	2.64
1.60V/cell	162.4	114.9	85.7	71.9	53.2	38.6	30.6	22.7	18.0	13.0	10.3	8.88	7.61	5.99	5.02	2.67

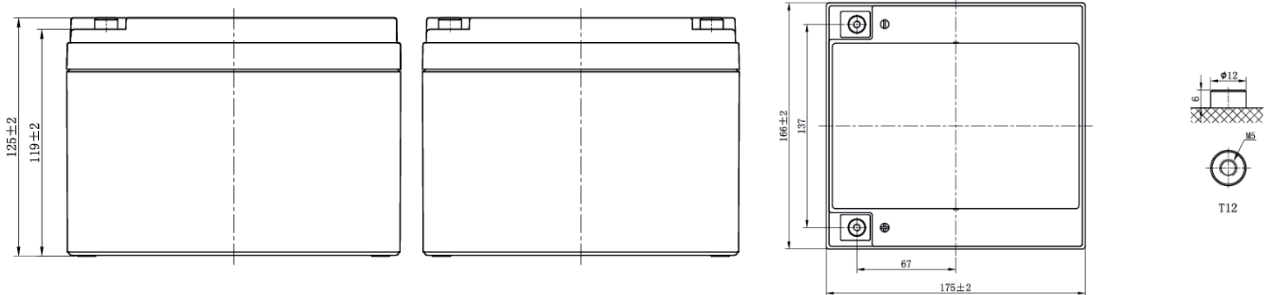
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC26-12 | 12V 26Ah

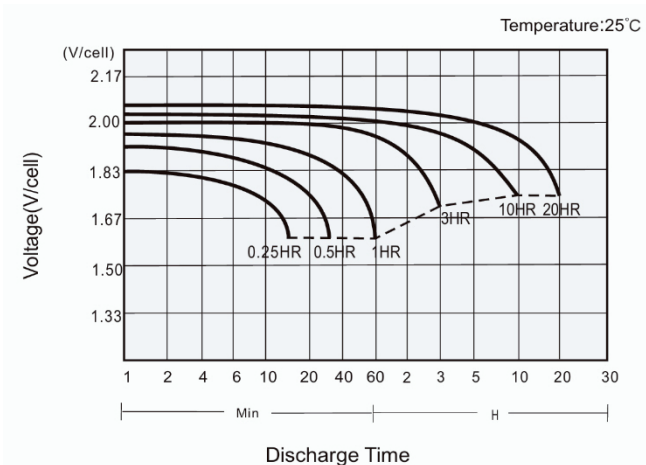
Valve Regulated Lead Acid Battery

BLACK BATT.

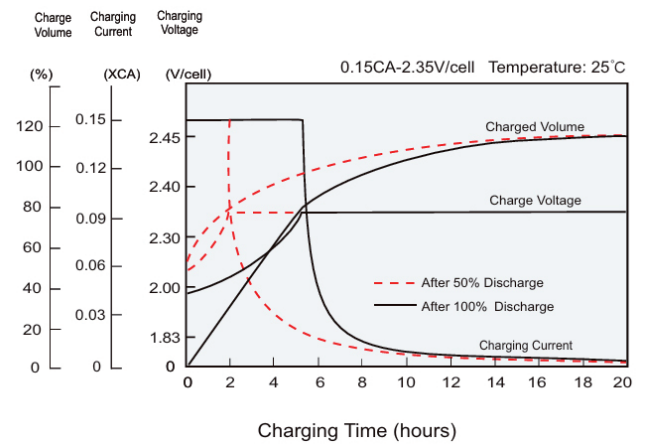
Dimensions | Terminal Type (unit:mm)



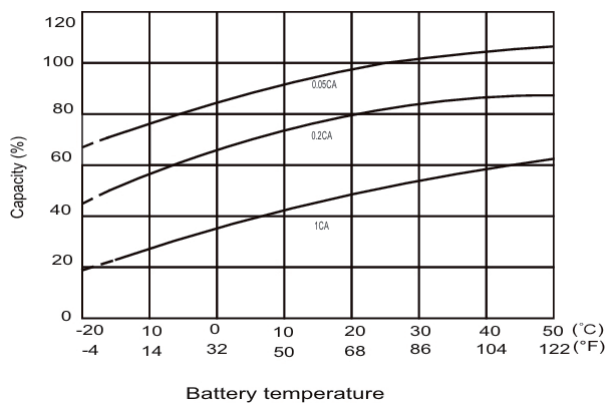
Discharge Characteristics



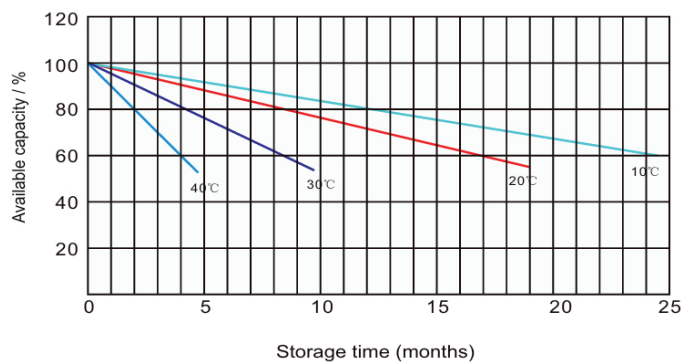
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC40-12 | 12V 40Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	40Ah
Dimensions	Length 197 ± 3 mm (7.76 inches)
	Width 165 ± 3 mm (6.50 inches)
	Container Height 170 ± 3 mm (6.69 inches)
	Total Height 170 ± 3 mm (6.69 inches)
Approximate Weight	12.0kg ± 3% (26.50 lbs)
Short-circuit current	950A
Internal Resistance (25°C)	Approx. 10mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	87.0	61.8	57.7	45.6	34.6	25.1	18.9	14.7	11.8	8.66	7.08	5.92	5.47	4.17	3.49	1.83
1.80V/cell	98.9	70.2	64.5	51.0	38.7	26.6	20.9	16.1	12.8	9.50	7.63	6.37	5.87	4.47	3.80	2.00
1.75V/cell	107.4	76.1	68.9	54.4	41.3	27.5	21.6	16.6	13.2	9.74	7.82	6.52	5.92	4.55	3.84	2.02
1.70V/cell	114.9	81.2	72.4	57.2	43.5	28.1	22.4	17.2	13.7	9.92	8.02	6.66	5.95	4.63	3.88	2.04
1.67V/cell	118.9	83.7	73.6	58.1	44.1	28.5	22.9	17.5	13.8	10.1	8.13	6.74	5.98	4.68	3.91	2.05
1.60V/cell	123.1	86.6	74.6	59.0	44.8	28.9	24.0	18.3	14.4	10.4	8.36	6.95	6.02	4.79	3.96	2.08

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	159.5	114.2	102.7	81.2	61.7	45.3	40.0	28.4	22.7	17.4	13.8	11.5	10.4	8.16	6.86	3.60
1.80V/cell	178.4	127.8	114.9	90.8	69.0	47.7	43.8	30.9	24.6	18.6	14.7	12.4	11.1	8.71	7.28	3.82
1.75V/cell	190.4	136.4	122.6	96.8	73.5	49.1	45.1	31.7	25.3	19.0	15.1	12.6	11.1	8.88	7.39	3.88
1.70V/cell	200.2	143.4	128.9	101.9	77.4	49.7	46.4	32.6	26.0	19.6	15.4	12.8	11.2	8.98	7.49	3.93
1.67V/cell	203.4	145.7	131.0	103.5	78.6	50.2	47.1	33.1	26.2	19.9	15.6	13.0	11.2	9.09	7.54	3.96
1.60V/cell	206.3	147.7	132.9	105.0	79.7	50.4	48.9	34.2	27.2	20.4	15.9	13.3	11.2	9.28	7.66	4.03

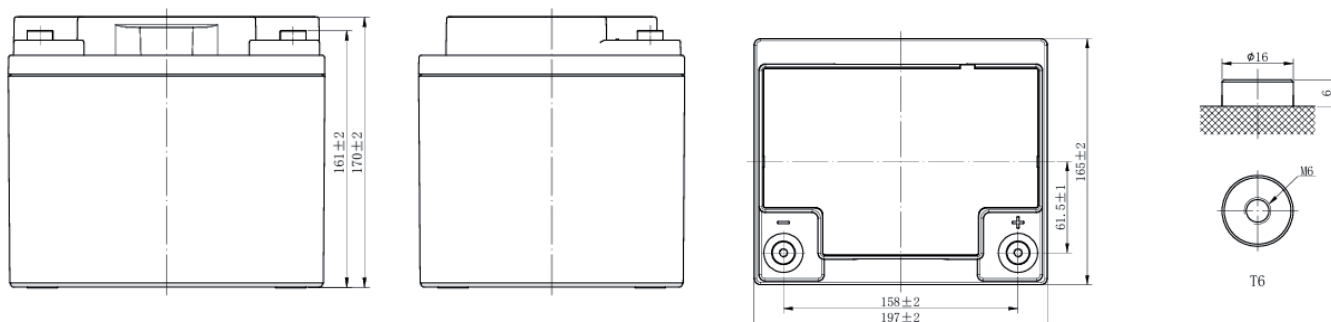
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC40-12 | 12V 40Ah

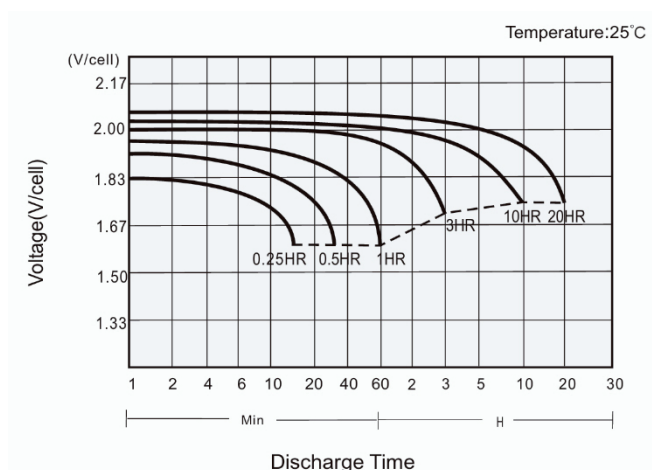
Valve Regulated Lead Acid Battery

BLACK BATT.

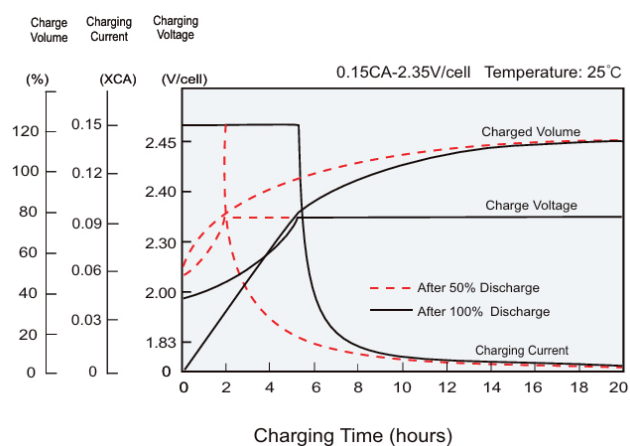
Dimensions | Terminal Type (unit:mm)



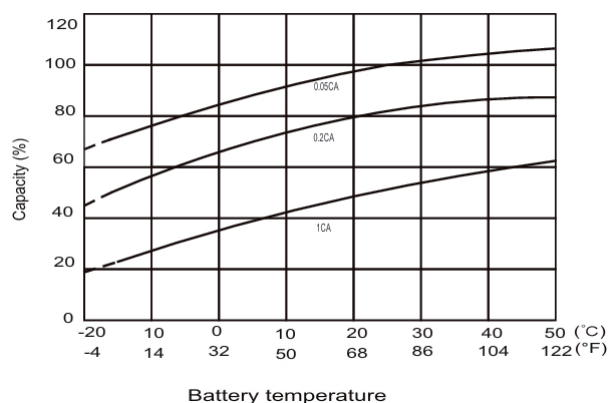
Discharge Characteristics



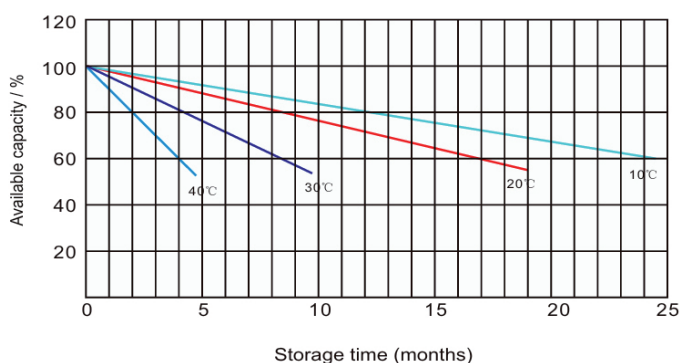
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC55-12 | 12V 55Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	55Ah
Dimensions	Length 257 ± 3 mm (10.1 inches)
	Width 132 ± 3 mm (5.20 inches)
	Container Height 200 ± 3 mm (7.87 inches)
	Total Height 200 ± 3 mm (7.87 inches)
Approximate Weight	15.7kg ± 3% (34.6 lbs)
Short-circuit current	1250A
Internal Resistance (25°C)	Approx. 9mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	112.1	79.7	70.5	55.5	49.6	36.3	30.7	22.3	18.7	13.7	10.8	9.35	8.24	6.34	5.25	2.79
1.80V/cell	127.5	90.5	79.9	62.7	54.0	38.4	31.8	23.0	19.3	14.9	11.5	9.83	8.86	6.67	5.50	2.89
1.75V/cell	138.5	98.2	86.5	67.7	55.1	39.8	33.4	24.2	20.4	15.2	11.7	10.0	8.93	6.70	5.56	2.92
1.70V/cell	148.1	104.7	91.9	71.8	56.2	40.6	34.1	24.7	20.8	15.5	11.9	10.2	8.97	6.81	5.61	2.95
1.67V/cell	153.3	108.0	94.6	73.8	57.0	41.2	34.6	25.1	21.1	15.6	12.1	10.4	9.01	6.90	5.68	2.98
1.60V/cell	158.7	111.7	97.5	75.7	57.9	41.8	35.1	25.4	21.4	15.8	12.2	10.5	9.08	6.99	5.75	3.02

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	203.0	145.4	133.6	105.5	94.8	69.7	59.4	43.2	36.4	26.8	21.1	18.4	16.3	12.6	10.4	5.55
1.80V/cell	227.1	162.7	149.4	118.0	102.4	73.4	61.2	44.4	37.4	29.0	22.5	19.3	17.4	13.2	10.9	5.74
1.75V/cell	242.4	173.6	159.5	126.0	103.7	75.6	64.0	46.5	39.2	29.5	22.8	19.6	17.5	13.2	11.0	5.79
1.70V/cell	254.8	182.5	167.6	132.4	104.9	76.6	64.9	47.2	39.9	29.9	23.1	19.8	17.6	13.4	11.1	5.84
1.67V/cell	259.0	185.5	170.4	134.6	105.6	77.3	65.5	47.7	40.3	30.1	23.4	20.2	17.6	13.6	11.2	5.91
1.60V/cell	262.6	188.1	172.8	136.5	106.1	77.7	66.0	48.0	40.6	30.2	23.6	20.4	17.7	13.7	11.4	5.97

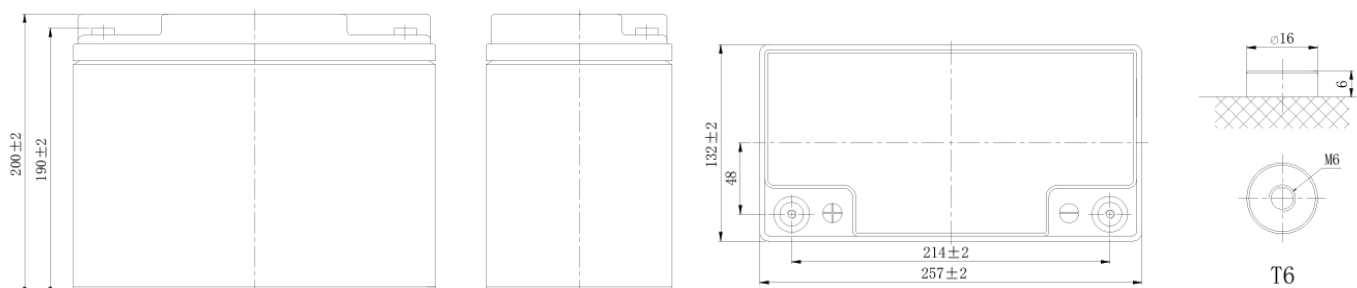
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC55-12 | 12V 55Ah

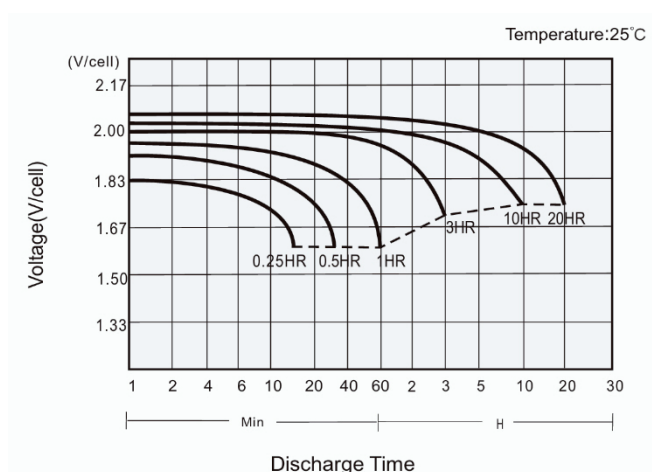
Valve Regulated Lead Acid Battery

BLACK BATT.

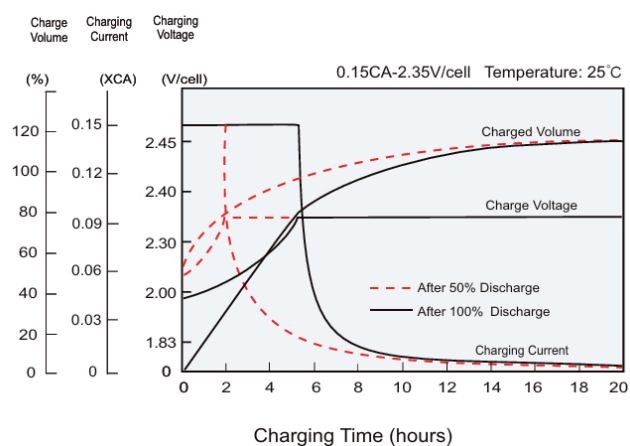
Dimensions | Terminal Type (unit:mm)



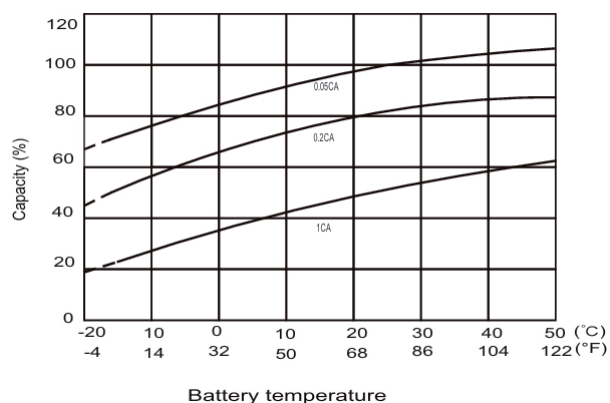
Discharge Characteristics



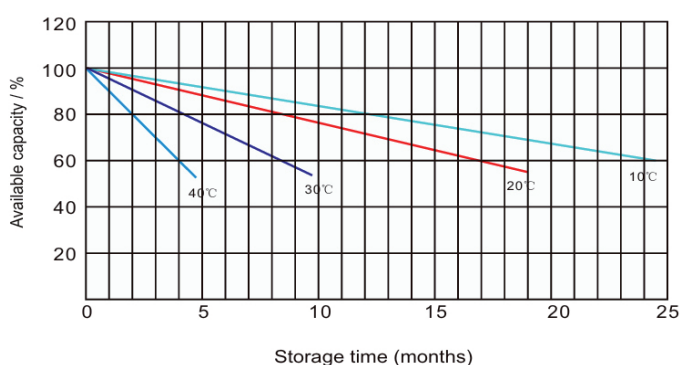
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC70-12 | 12V 70Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	70Ah
Dimensions	Length 348 ± 3 mm (13.7 inches)
	Width 167 ± 3 mm (6.57 inches)
	Container Height 178 ± 3 mm (7.01 inches)
	Total Height 178 ± 3 mm (7.01 inches)
Approximate Weight	18.6kg ± 3% (40.8 lbs)
Short-circuit current	1495A
Internal Resistance (25°C)	Approx. 7mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	135.3	101.0	84.1	70.7	54.3	40.5	34.2	25.7	20.6	15.5	12.4	10.3	8.96	7.29	6.09	3.27
1.80V/cell	157.7	119.1	97.8	81.4	61.4	45.3	37.9	28.1	22.4	16.8	13.3	11.1	9.61	7.80	6.50	3.45
1.75V/cell	172.1	127.7	103.5	85.5	64.2	47.2	39.3	29.0	23.1	17.2	13.7	11.4	9.82	7.94	6.60	3.49
1.70V/cell	186.4	136.2	109.4	89.9	67.0	49.0	40.7	30.0	23.8	17.7	14.0	11.6	10.0	8.08	6.70	3.53
1.67V/cell	194.6	141.2	112.8	92.5	68.7	50.1	41.6	30.6	24.2	18.0	14.2	11.8	10.2	8.17	6.76	3.56
1.60V/cell	214.5	152.8	120.9	98.5	72.6	52.7	43.6	31.9	25.2	18.7	14.7	12.1	10.4	8.36	6.91	3.62

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	257.0	193.3	161.6	136.2	105.0	78.6	66.6	50.1	40.2	30.4	24.3	20.3	17.7	14.4	12.1	6.49
1.80V/cell	295.1	225.2	186.0	155.4	117.7	87.3	73.2	54.5	43.5	32.8	26.1	21.8	18.9	15.4	12.8	6.84
1.75V/cell	317.1	238.6	194.7	161.5	122.0	90.1	75.3	56.0	44.6	33.5	26.6	22.3	19.3	15.6	13.0	6.93
1.70V/cell	337.8	251.1	203.4	168.3	126.2	92.8	77.6	57.5	45.8	34.3	27.2	22.7	19.6	15.9	13.2	7.01
1.67V/cell	349.4	258.3	210.4	171.9	128.7	94.4	78.8	58.3	46.4	34.7	27.5	22.9	19.8	16.0	13.3	7.06
1.60V/cell	375.4	273.8	219.5	180.2	134.2	98.2	81.9	60.4	48.0	35.8	28.3	23.5	20.3	16.3	13.6	7.17

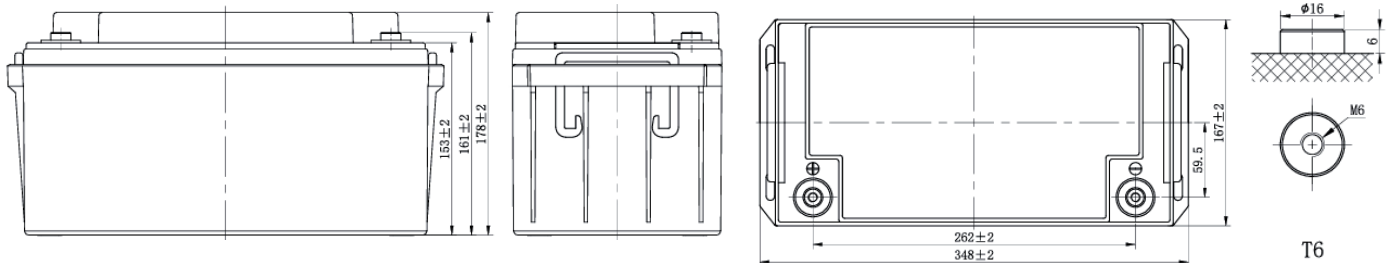
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC70-12 | 12V 70Ah

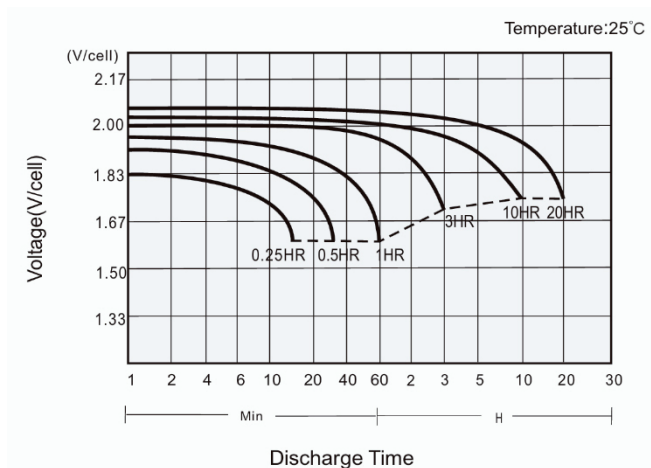
Valve Regulated Lead Acid Battery

BLACK BATT.

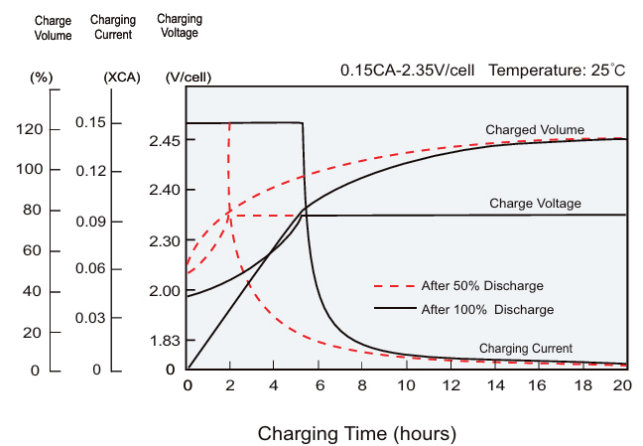
Dimensions | Terminal Type (unit:mm)



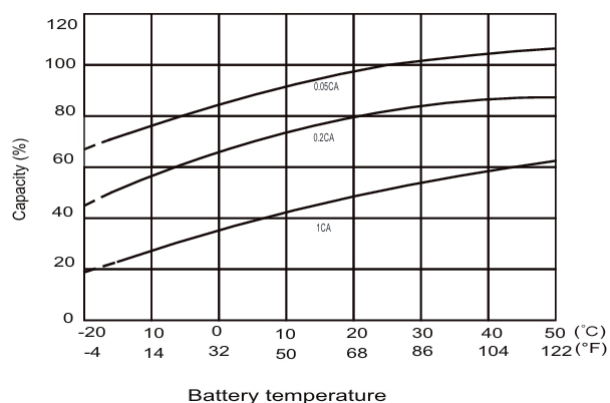
Discharge Characteristics



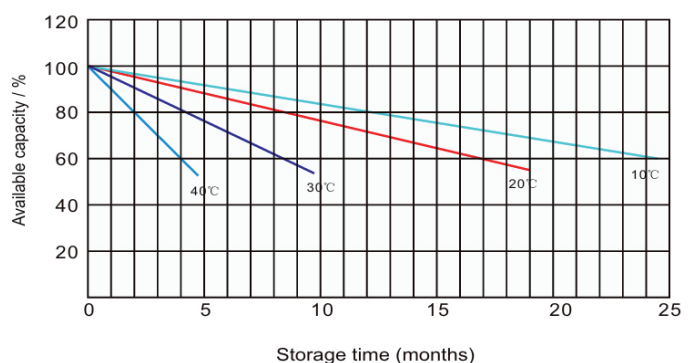
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC80-12 | 12V 80Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	80Ah
Dimensions	Length 260 ± 3 mm (10.2 inches)
	Width 168 ± 3 mm (6.61 inches)
	Container Height 208 ± 3 mm (8.19 inches)
	Total Height 214 ± 3 mm (8.43 inches)
Approximate Weight	21.4kg ± 3% (47.2 lbs)
Short-circuit current	1840A
Internal Resistance (25°C)	Approx. 6.2mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	162.8	115.7	104.7	82.3	73.6	53.8	45.6	33.0	27.8	20.4	16.0	13.9	12.2	9.40	7.79	4.13
1.80V/cell	185.1	131.4	118.6	93.1	80.1	57.0	47.2	34.2	28.7	22.1	17.1	14.6	13.1	9.89	8.00	4.28
1.75V/cell	201.1	142.5	128.4	100.5	81.8	59.0	49.5	35.9	30.2	22.5	17.4	14.9	13.2	9.95	8.24	4.33
1.70V/cell	215.0	151.9	136.4	106.5	83.4	60.2	50.5	36.6	30.8	23.0	17.7	15.1	13.3	10.1	8.32	4.37
1.67V/cell	222.5	156.7	140.4	109.4	84.6	61.1	51.3	37.2	31.2	23.2	18.0	15.4	13.4	10.2	8.43	4.43
1.60V/cell	230.4	162.1	144.7	112.2	85.9	62.0	52.0	37.7	31.7	23.4	18.2	15.6	13.4	10.4	8.53	4.48

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	304.0	217.8	198.2	156.6	140.6	101.3	88.2	64.1	54.0	39.8	31.4	27.3	24.1	18.7	15.5	8.23
1.80V/cell	340.1	243.6	221.7	175.1	151.9	106.6	90.8	65.9	55.5	43.0	33.4	28.6	25.8	19.6	16.2	8.52
1.75V/cell	363.0	260.0	236.6	186.9	153.8	109.8	94.9	69.0	58.2	43.7	33.9	29.0	25.9	19.6	16.3	8.59
1.70V/cell	381.6	273.3	248.7	196.5	155.6	111.2	96.3	70.1	59.1	44.4	34.3	29.4	26.0	19.9	16.5	8.67
1.67V/cell	387.8	277.8	252.8	199.7	156.7	112.2	97.1	70.7	59.7	44.6	34.7	29.9	26.1	20.1	16.7	8.77
1.60V/cell	393.2	281.6	256.3	202.5	157.4	112.8	97.9	71.3	60.2	44.8	35.0	30.2	26.2	20.4	16.8	8.86

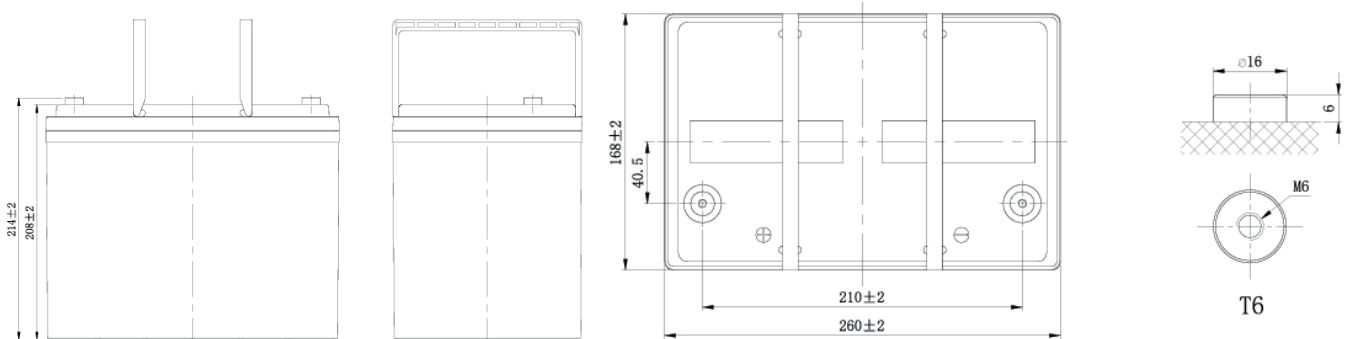
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC80-12 | 12V 80Ah

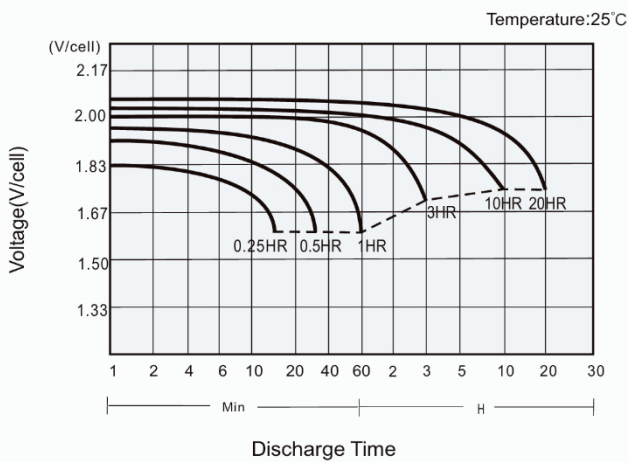
Valve Regulated Lead Acid Battery

BLACK BATT.

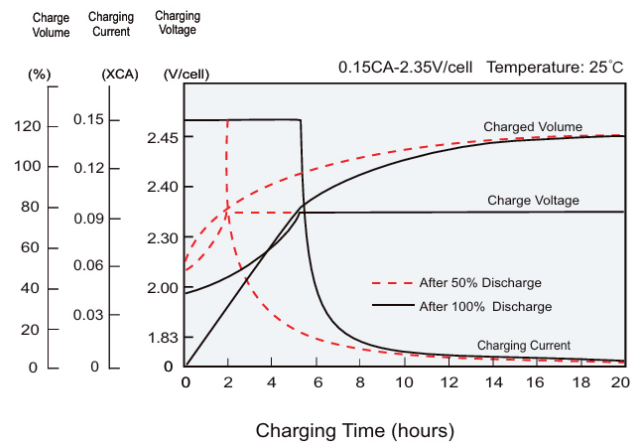
Dimensions | Terminal Type (unit:mm)



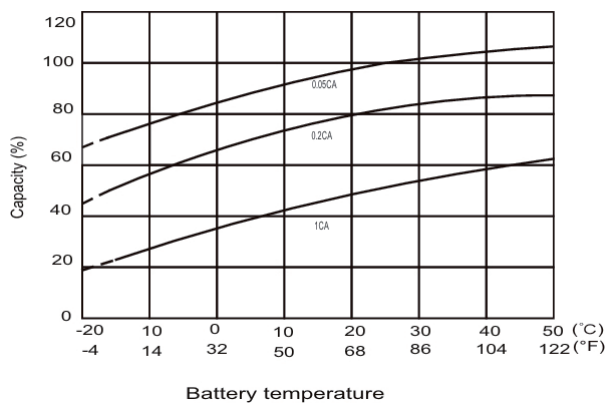
Discharge Characteristics



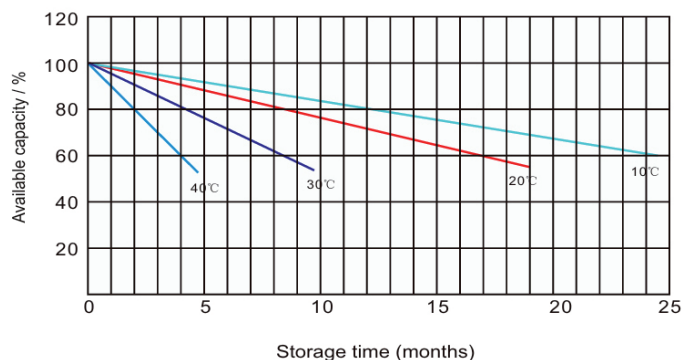
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC100-12 | 12V 100Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	100Ah
Dimensions	Length 330 ± 3 mm (13.0 inches)
	Width 173 ± 3 mm (6.81 inches)
	Container Height 213 ± 3 mm (8.39 inches)
	Total Height 220 ± 3 mm (8.66 inches)
Approximate Weight	27.80kg ± 3% (61.6 lbs)
Short-circuit current	2000A
Internal Resistance (25°C)	Approx. 4.9mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	195.7	139.2	125.7	98.9	88.4	64.6	54.7	39.7	33.4	24.5	19.2	16.7	14.7	11.3	9.36	4.96
1.80V/cell	222.6	158.0	142.4	111.8	96.2	68.5	56.7	41.0	34.4	26.6	20.5	17.5	15.8	11.9	10.0	5.15
1.75V/cell	241.8	171.3	154.2	120.7	98.2	71.0	59.5	43.1	36.3	27.1	20.9	17.8	15.9	11.9	10.1	5.20
1.70V/cell	258.5	182.7	163.8	127.9	100.2	72.4	60.7	44.0	37.0	27.6	21.2	18.1	16.0	12.1	10.2	5.25
1.67V/cell	267.5	188.5	168.6	131.4	101.6	73.4	61.6	44.6	37.5	27.9	21.6	18.5	16.1	12.3	10.3	5.31
1.60V/cell	277.0	194.9	173.8	134.8	103.1	74.5	62.5	45.3	38.1	28.1	21.8	18.8	16.2	12.5	10.4	5.38

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	365.6	261.8	238.0	188.0	168.9	124.3	105.9	77.0	64.9	47.8	37.7	32.8	29.0	22.4	18.6	9.89
1.80V/cell	408.9	292.9	266.2	210.3	182.4	130.8	109.1	79.2	66.7	51.7	40.1	34.4	31.1	23.5	19.5	10.2
1.75V/cell	436.5	312.6	284.1	224.5	184.7	134.7	114.0	82.9	69.9	52.5	40.7	34.9	31.2	23.6	19.6	10.3
1.70V/cell	458.8	328.6	298.7	236.0	186.8	136.5	115.6	84.1	71.0	53.3	41.2	35.3	31.3	23.9	19.8	10.4
1.67V/cell	466.3	334.0	303.6	239.8	188.2	137.7	116.7	84.9	71.8	53.6	41.7	35.9	31.4	24.2	20.0	10.5
1.60V/cell	472.8	338.7	307.8	243.2	189.0	138.4	117.5	85.6	72.3	53.8	42.0	36.3	31.5	24.5	20.2	10.6

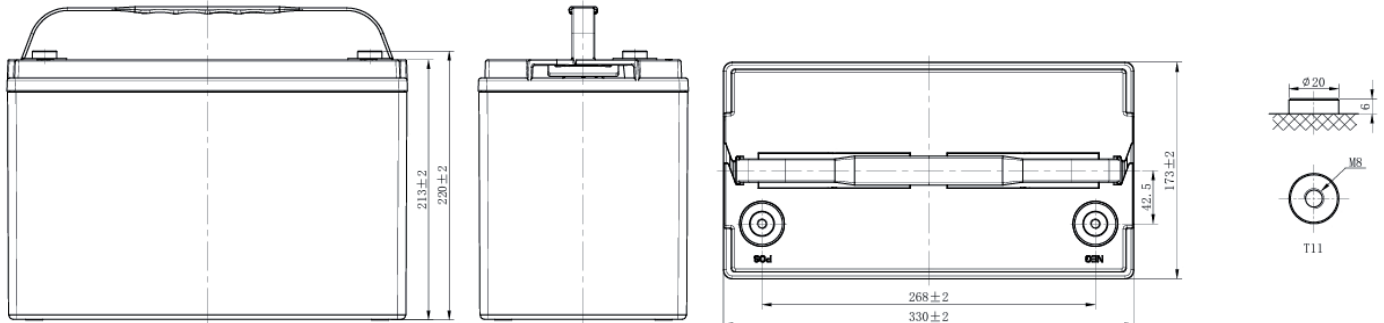
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC100-12 | 12V 100Ah

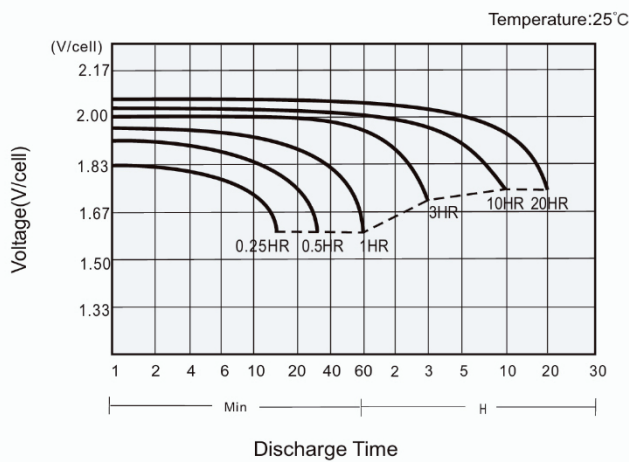
Valve Regulated Lead Acid Battery

BLACK BATT.

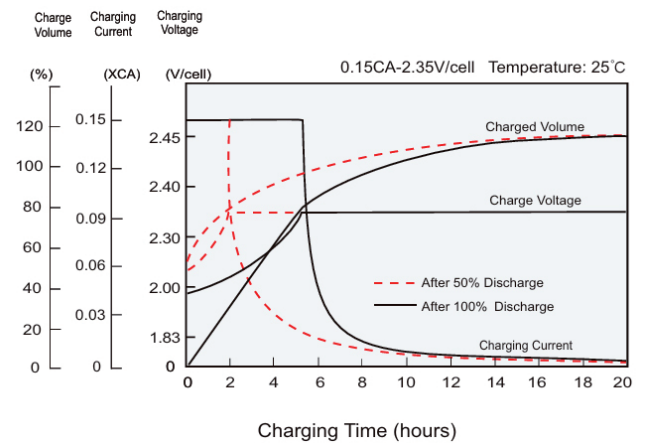
Dimensions | Terminal Type (unit:mm)



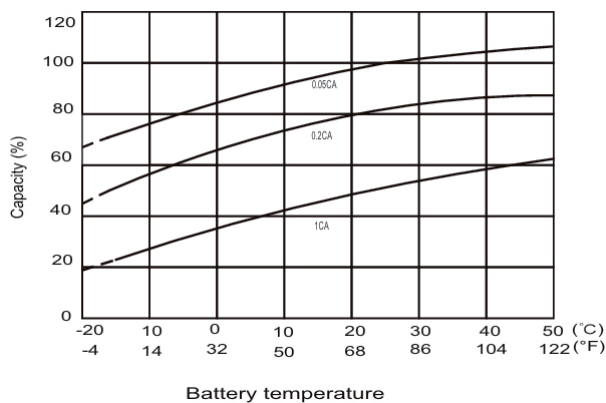
Discharge Characteristics



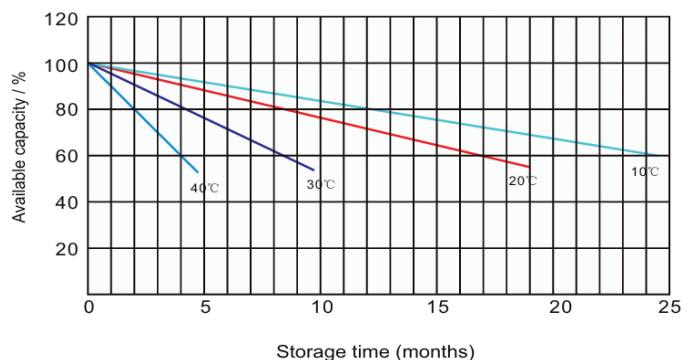
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC105-12 | 12V 105Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	105Ah
Dimensions	Length 330 ± 3 mm (13.0 inches)
	Width 173 ± 3 mm (6.81 inches)
	Container Height 213 ± 3 mm (8.39 inches)
	Total Height 220 ± 3 mm (8.66 inches)
Approximate Weight	30.5kg ± 3% (67.2 lbs)
Short-circuit current	2000A
Internal Resistance (25°C)	Approx. 5mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	140.5	121.9	100.4	78.8	58.9	50.9	31.7	23.2	18.2	15.8	13.9	10.7	9.55	5.07
1.80V/cell	159.5	138.1	112.0	85.8	62.4	52.7	32.7	25.2	19.4	16.6	15.0	11.3	10.0	5.25
1.75V/cell	173.0	149.5	118.6	87.6	64.6	55.3	34.4	25.7	19.8	16.9	15.1	11.3	10.1	5.30
1.70V/cell	184.5	158.8	124.1	89.3	65.9	56.4	35.1	26.2	20.2	17.2	15.2	11.5	10.2	5.36
1.67V/cell	190.3	163.4	127.1	90.7	66.9	57.3	35.6	26.4	20.5	17.6	15.2	11.7	10.3	5.42
1.60V/cell	196.8	168.5	130.3	92.0	67.9	58.1	36.1	26.7	20.7	17.8	15.3	11.8	10.5	5.49

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	264.4	230.7	190.7	150.7	113.2	98.5	61.6	45.4	35.7	31.1	27.5	21.3	19.0	10.1
1.80V/cell	295.8	258.1	210.4	162.7	119.2	101.4	63.3	49.0	38.0	32.6	29.5	22.3	19.9	10.4
1.75V/cell	315.7	275.4	220.1	164.8	122.7	106.0	66.3	49.9	38.6	33.1	29.6	22.4	20.0	10.5
1.70V/cell	331.9	289.6	228.2	166.7	124.3	107.5	67.4	50.6	39.1	33.5	29.7	22.7	20.2	10.6
1.67V/cell	337.2	294.3	231.1	167.9	125.4	108.5	68.1	50.9	39.6	34.1	29.8	23.0	20.4	10.7
1.60V/cell	342.0	298.4	233.5	168.6	126.1	109.3	68.6	51.1	39.9	34.4	29.9	23.2	20.6	10.9

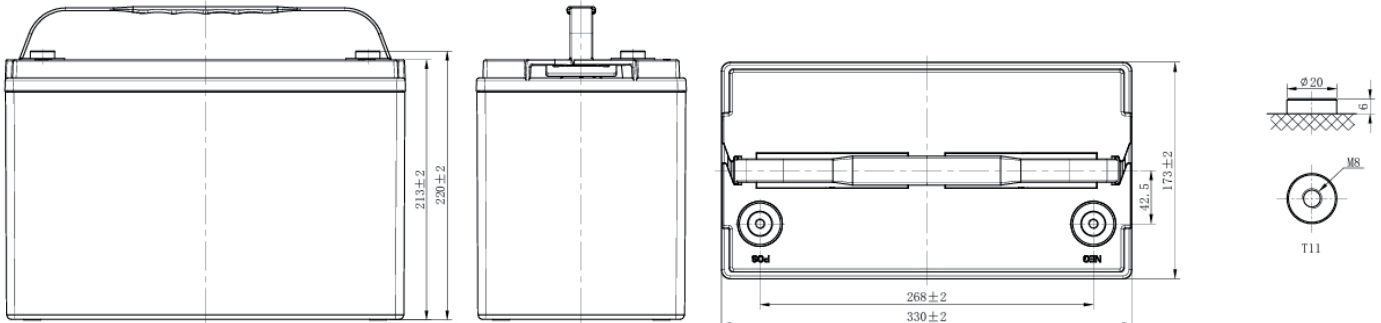
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC105-12 | 12V 105Ah

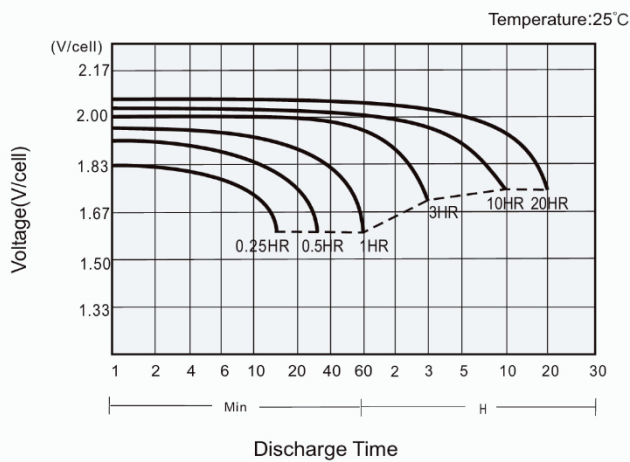
Valve Regulated Lead Acid Battery

BLACK BATT.

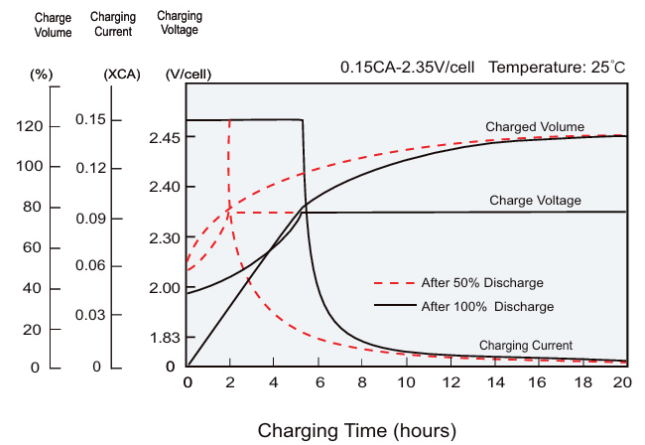
Dimensions | Terminal Type (unit:mm)



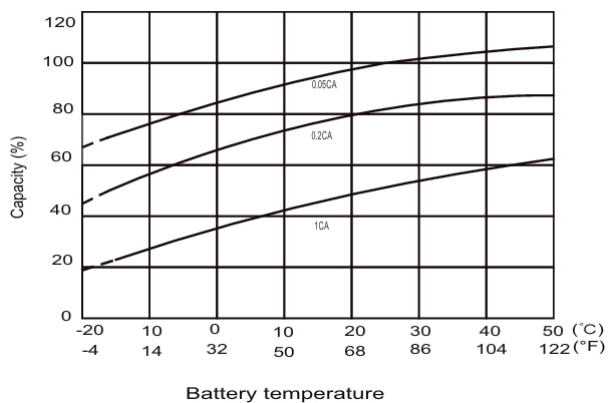
Discharge Characteristics



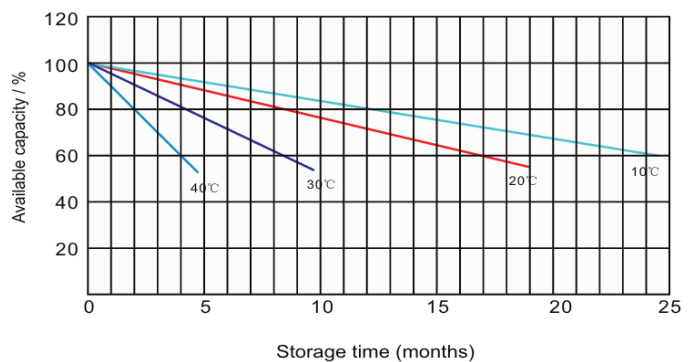
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC150-12 | 12V 150Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	150Ah
Dimensions	Length 483 ± 3 mm (19.0 inches)
	Width 170 ± 3 mm (6.69 inches)
	Container Height 224 ± 3 mm (8.84 inches)
	Total Height 238 ± 3 mm (9.39 inches)
Approximate Weight	41.5kg ± 3% (91.4 lbs)
Short-circuit current	3000A
Internal Resistance (25°C)	Approx. 3.5mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	312.2	233.0	194.1	163.1	125.4	93.6	79.0	59.3	47.4	35.8	28.5	23.8	20.7	16.8	14.1	7.53
1.80V/cell	363.9	274.8	225.7	188.0	141.7	104.6	87.5	64.9	51.6	38.7	30.7	25.7	22.2	18.0	15.0	7.95
1.75V/cell	397.1	294.7	238.8	197.2	148.1	108.9	90.7	67.0	53.2	39.8	31.5	26.3	22.7	18.3	15.2	8.05
1.70V/cell	430.1	314.3	252.4	207.5	154.7	113.0	94.0	69.3	54.9	40.9	32.3	26.8	23.1	18.7	15.5	8.15
1.67V/cell	449.1	325.8	260.3	213.4	158.6	115.5	96.0	70.6	55.8	41.5	32.7	27.2	23.4	18.8	15.6	8.21
1.60V/cell	495.0	352.5	279.0	227.3	167.6	121.5	100.7	73.7	58.1	43.1	33.8	28.0	24.1	19.3	15.9	8.36

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	593.2	446.1	372.9	314.3	242.3	181.4	153.6	115.6	92.7	70.2	56.0	46.9	40.8	33.2	27.8	15.0
1.80V/cell	681.0	519.7	429.1	358.7	271.7	201.4	168.9	125.7	100.4	75.6	60.2	50.4	43.6	35.5	29.6	15.8
1.75V/cell	731.8	550.5	449.2	372.7	281.5	207.9	173.9	129.2	102.9	77.3	61.5	51.4	44.4	36.1	30.1	16.0
1.70V/cell	779.7	579.4	469.4	388.3	291.3	214.1	179.0	132.7	105.6	79.2	62.8	52.4	45.3	36.6	30.5	16.2
1.67V/cell	806.2	596.0	485.5	396.8	297.0	217.8	181.9	134.6	107.0	80.1	63.5	52.9	45.7	37.0	30.7	16.3
1.60V/cell	866.3	631.8	506.5	415.9	309.8	226.7	188.9	139.5	110.7	82.6	65.3	54.3	46.8	37.7	31.3	16.6

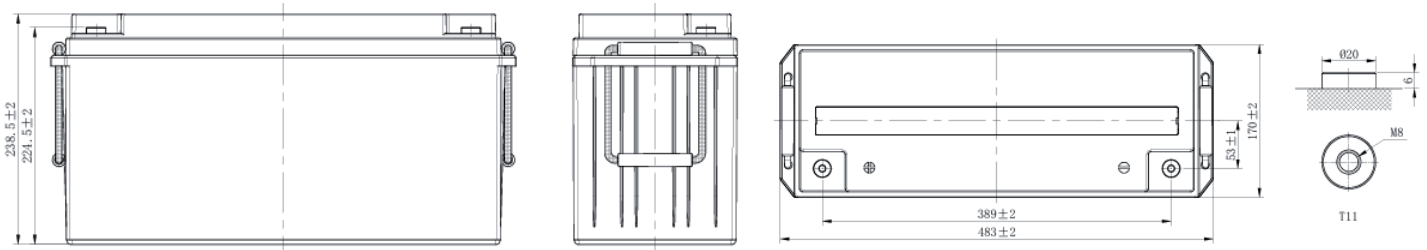
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC150-12 | 12V 150Ah

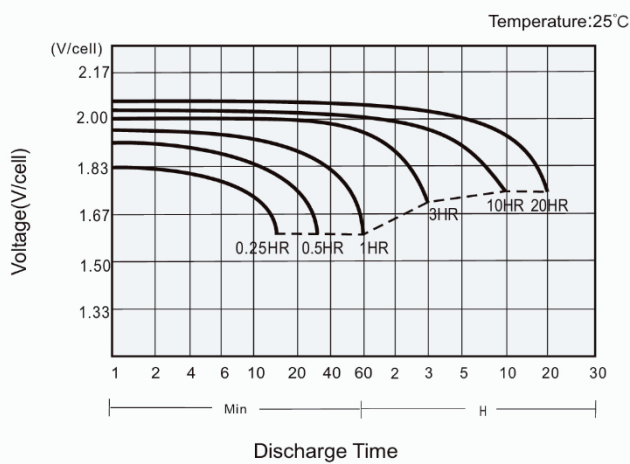
Valve Regulated Lead Acid Battery

BLACK BATT.

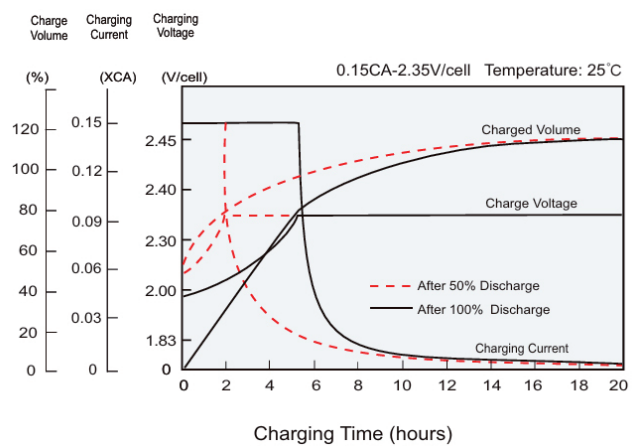
Dimensions | Terminal Type (unit:mm)



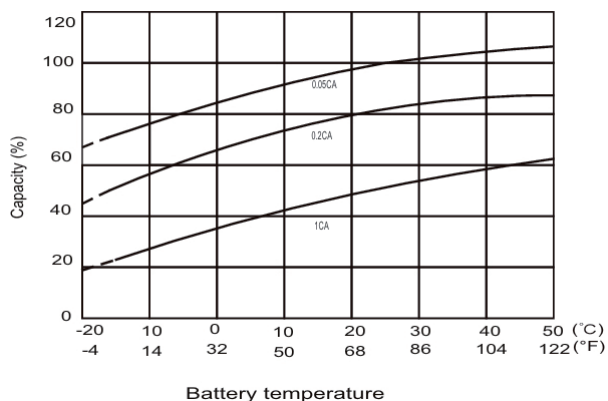
Discharge Characteristics



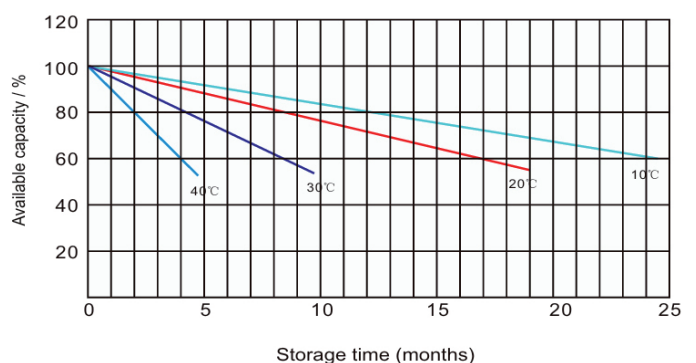
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC200-12 | 12V 200Ah

Valve Regulated Lead Acid Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	200Ah
Dimensions	Length 522 ± 3 mm (20.6 inches)
	Width 240 ± 3 mm (9.45 inches)
	Container Height 218 ± 3 mm (8.58 inches)
	Total Height 224 ± 3 mm (8.82 inches)
Approximate Weight	57.4kg ± 3% (126.5 lbs)
Short-circuit current	3600A
Internal Resistance (25°C)	Approx. 3.2mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	328.7	287.1	254.0	199.7	178.6	130.6	110.6	80.2	67.4	49.4	38.8	33.7	29.7	22.8	18.9	10.0
1.80V/cell	372.4	325.8	287.8	225.8	194.4	138.4	114.6	82.9	69.6	53.7	41.4	35.4	31.9	24.0	20.0	10.4
1.75V/cell	403.2	353.4	311.6	243.8	198.4	143.4	120.2	87.1	73.3	54.7	42.2	36.0	32.1	24.1	20.1	10.5
1.70V/cell	428.2	376.8	330.9	258.5	202.4	146.2	122.6	88.9	74.7	55.8	42.9	36.6	32.3	24.5	20.2	10.6
1.67V/cell	440.8	388.7	340.6	265.5	205.3	148.4	124.4	90.2	75.8	56.3	43.6	37.4	32.4	24.8	20.5	10.7
1.60V/cell	454.4	402.0	351.1	272.4	208.3	150.5	126.2	91.5	76.9	56.8	44.1	37.9	32.7	25.2	20.7	10.9

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	721.2	529.0	480.9	379.9	341.2	251.1	213.9	155.5	131.1	96.6	76.1	66.3	58.6	45.3	37.6	20.0
1.80V/cell	806.9	591.8	537.9	424.9	368.6	264.3	220.4	160.0	134.7	104.4	80.9	69.4	62.7	47.5	39.3	20.7
1.75V/cell	861.1	631.6	574.1	453.5	373.2	272.2	230.2	167.4	141.3	106.1	82.2	70.4	63.0	47.6	39.7	20.8
1.70V/cell	905.3	664.0	603.5	476.8	377.5	275.7	233.6	170.0	143.5	107.8	83.3	71.4	63.3	48.3	40.0	21.0
1.67V/cell	920.0	674.8	613.3	484.5	380.2	278.2	235.7	171.6	145.0	108.3	84.3	72.6	63.4	48.9	40.5	21.3
1.60V/cell	932.9	684.2	621.9	491.3	381.8	279.6	237.5	173.0	146.2	108.8	84.9	73.3	63.6	49.4	40.9	21.5

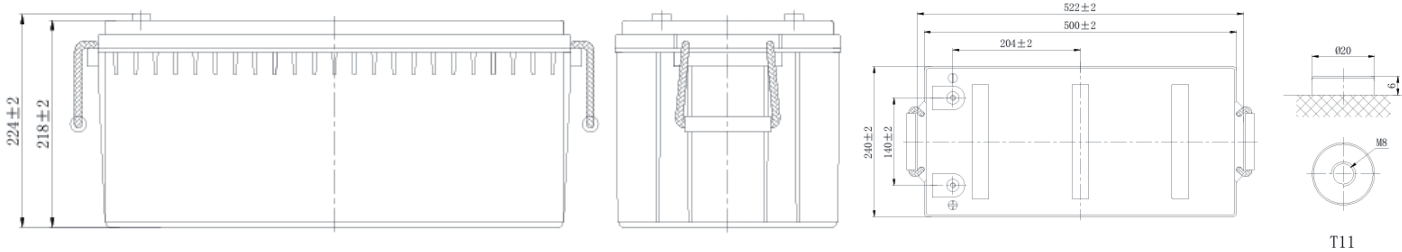
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC200-12 | 12V 200Ah

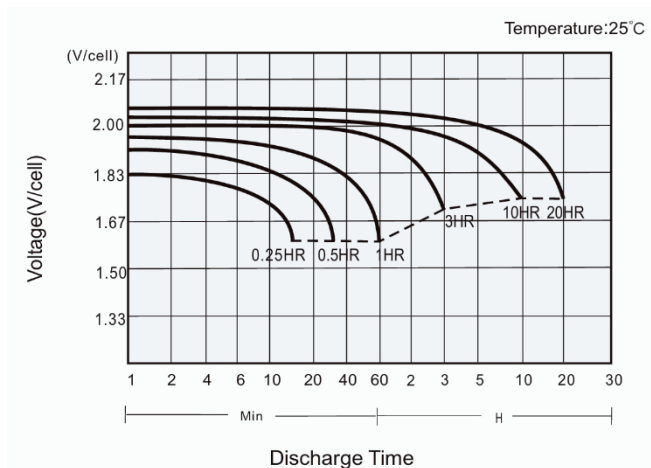
Valve Regulated Lead Acid Battery

BLACK BATT.

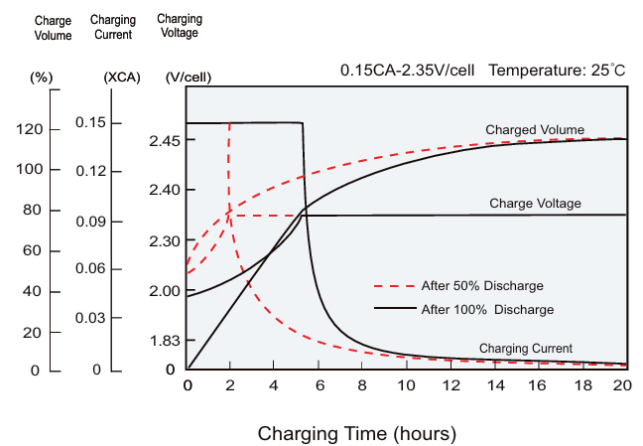
Dimensions | Terminal Type (unit:mm)



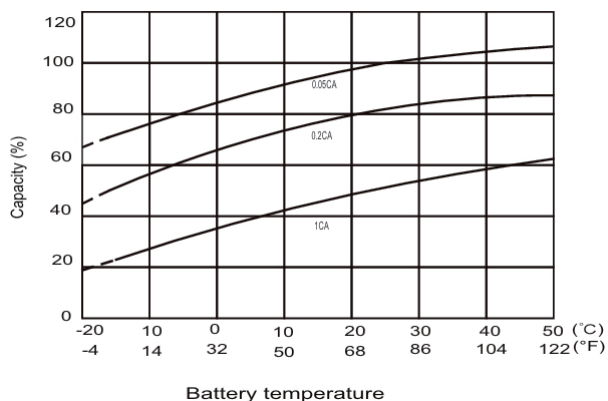
Discharge Characteristics



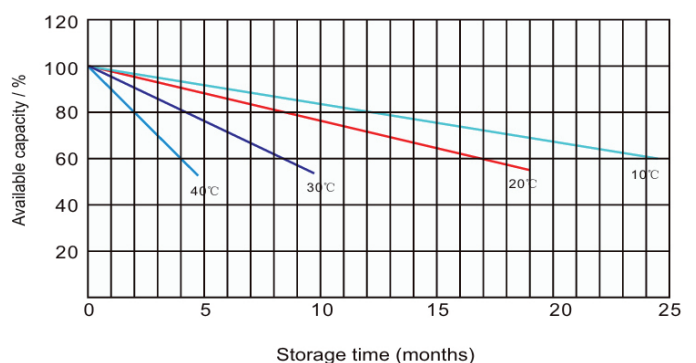
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BCG105-12 | 12V 105Ah

Hybrid Gel Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	105Ah
Dimensions	Length 330 ± 3 mm (13.0 inches)
	Width 173 ± 3 mm (6.81 inches)
	Container Height 212 ± 3 mm (8.35 inches)
	Total Height 218 ± 3 mm (8.58 inches)
Approximate Weight	28.2kg ± 3% (62.1 lbs)
Short-circuit current	2000A
Internal Resistance (25°C)	Approx. 4.9mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	107.8	90.2	71.2	54.1	44.8	28.5	22.1	18.2	15.4	13.5	11.0	9.28	5.00
1.80V/cell	128.3	105.0	82.0	61.4	49.8	30.9	23.8	19.4	16.6	14.4	11.7	10.0	5.15
1.75V/cell	143.1	115.3	87.4	64.9	52.7	32.4	24.6	20.0	17.0	14.8	11.9	10.1	5.20
1.70V/cell	154.5	122.6	92.2	68.2	55.0	34.0	25.5	20.6	17.5	15.2	12.0	10.2	5.30
1.67V/cell	162.7	129.0	96.6	70.2	57.0	34.9	26.4	21.2	17.9	15.5	12.2	10.3	5.35
1.60V/cell	175.5	138.5	102.6	74.3	59.7	36.2	27.3	21.7	18.2	15.8	12.4	10.4	5.40

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	202.7	171.2	136.5	104.5	86.8	55.4	43.2	35.7	30.4	26.5	21.7	18.4	9.94
1.80V/cell	238.3	196.7	155.2	117.7	96.0	59.9	46.2	37.8	32.5	28.4	23.1	19.8	10.2
1.75V/cell	262.2	213.7	164.0	123.4	101.1	62.6	47.7	38.9	33.2	29.1	23.4	20.0	10.3
1.70V/cell	278.8	225.2	171.8	128.9	105.0	65.5	49.2	40.0	34.0	29.6	23.7	20.1	10.5
1.67V/cell	290.7	234.7	178.2	131.7	108.1	66.9	50.9	41.0	34.7	30.2	24.0	20.3	10.6
1.60V/cell	308.3	249.3	187.8	138.3	112.7	69.0	52.4	41.8	35.2	30.8	24.3	20.6	10.7

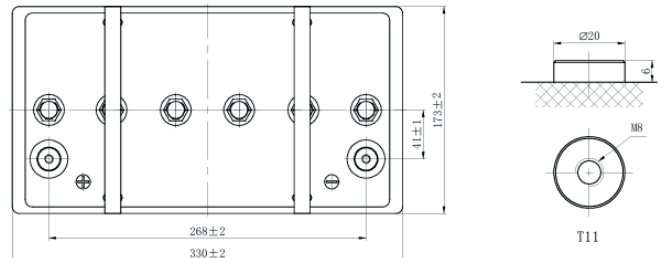
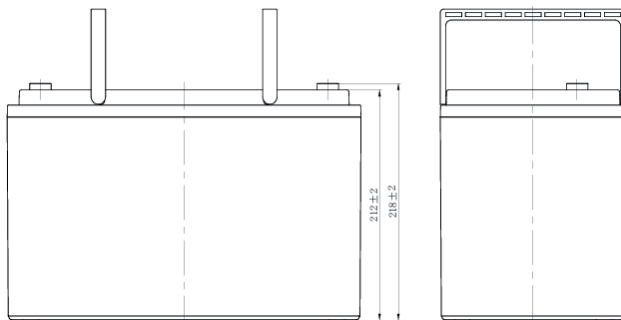
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BCG105-12 | 12V 105Ah

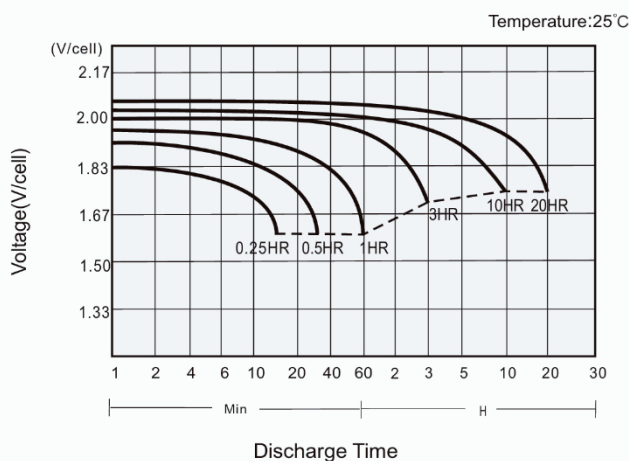
Hybrid Gel Battery

BLACK BATT.

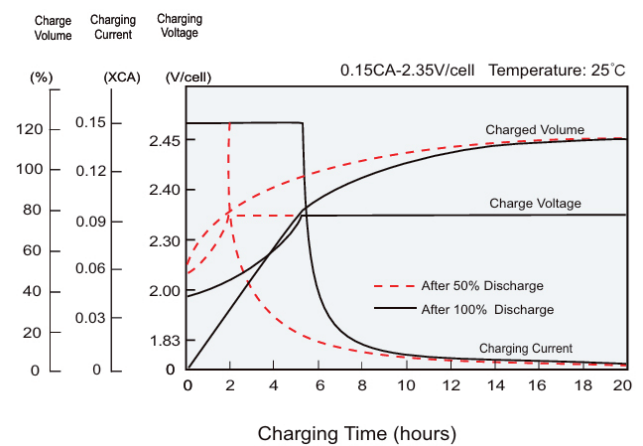
Dimensions | Terminal Type (unit:mm)



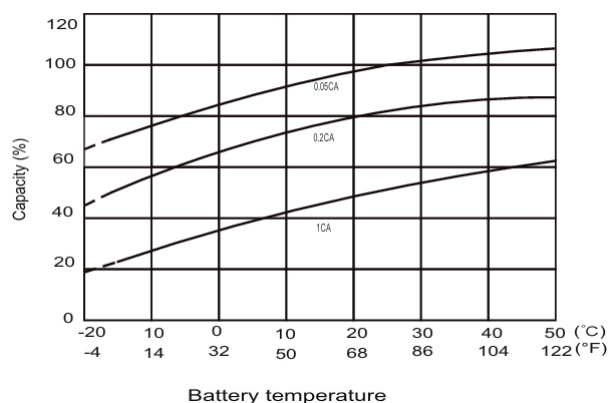
Discharge Characteristics



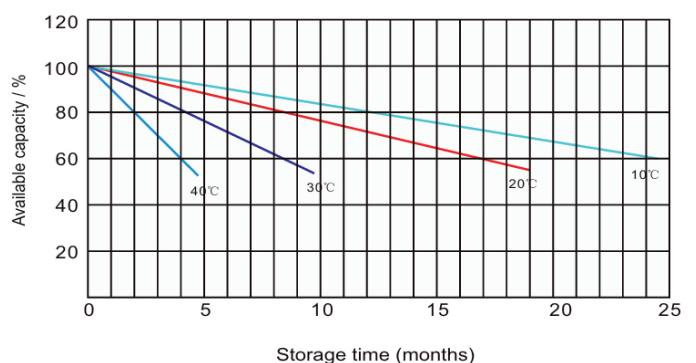
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BCG150-12 | 12V 150Ah

Hybrid Gel Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	150Ah
Dimensions	Length 483 ± 3 mm (19.0 inches)
	Width 170 ± 3 mm (6.69 inches)
	Container Height 238 ± 3 mm (9.38 inches)
	Total Height 238 ± 3 mm (9.38 inches)
Approximate Weight	43.6 kg ± 3% (96.1 lbs)
Short-circuit current	3000A
Internal Resistance (25°C)	Approx. 3.5mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	161.7	135.2	106.9	81.2	67.2	42.7	33.2	27.3	23.2	20.2	16.4	13.9	7.50
1.80V/cell	192.5	157.5	123.0	92.1	74.7	46.4	35.6	29.0	24.9	21.7	17.5	15.0	7.73
1.75V/cell	214.6	173.0	131.1	97.4	79.0	48.6	36.9	30.0	25.5	22.3	17.8	15.2	7.80
1.70V/cell	231.8	183.9	138.3	102.3	82.5	51.0	38.2	30.9	26.2	22.7	18.1	15.2	7.95
1.67V/cell	244.1	193.5	144.8	105.4	85.4	52.4	39.6	31.8	26.8	23.2	18.3	15.4	8.03
1.60V/cell	263.2	207.8	153.9	111.4	89.6	54.3	41.0	32.6	27.3	23.7	18.6	15.6	8.10

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	304.0	256.9	204.8	156.7	130.1	83.2	64.8	53.5	45.6	39.8	32.6	27.7	14.9
1.80V/cell	357.4	295.1	232.8	176.5	144.0	89.9	69.3	56.7	48.8	42.6	34.6	29.7	15.3
1.75V/cell	393.2	320.6	246.0	185.1	151.6	93.9	71.6	58.4	49.8	43.6	35.1	30.0	15.5
1.70V/cell	418.2	337.8	257.6	193.3	157.6	98.2	73.9	60.0	51.0	44.5	35.6	30.1	15.8
1.67V/cell	436.1	352.1	267.3	197.5	162.1	100.3	76.3	61.6	52.0	45.3	36.0	30.4	15.9
1.60V/cell	462.4	373.9	281.7	207.5	169.0	103.5	78.6	62.8	52.9	46.1	36.4	30.8	16.0

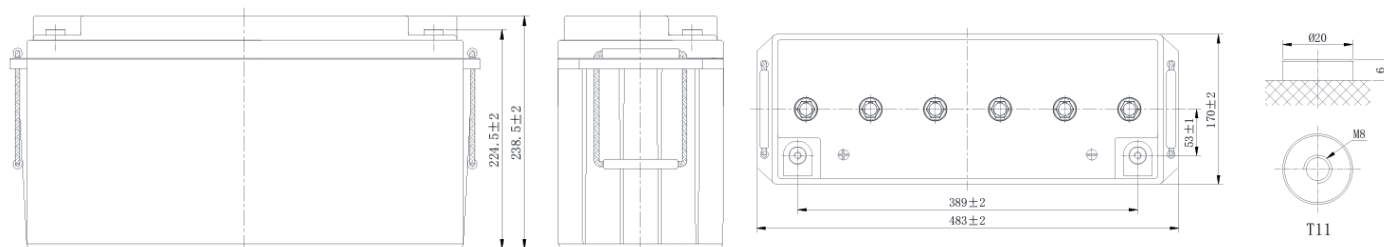
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BCG150-12 | 12V 150Ah

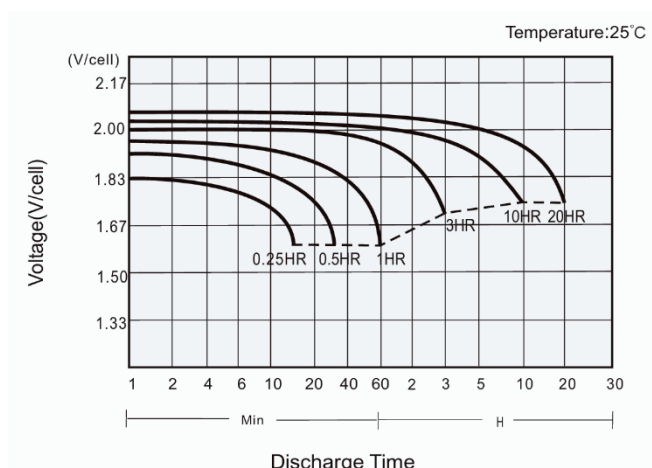
Hybrid Gel Battery

BLACK BATT.

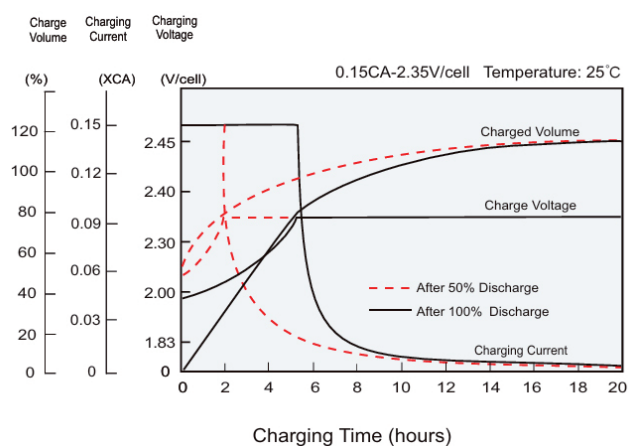
Dimensions | Terminal Type (unit:mm)



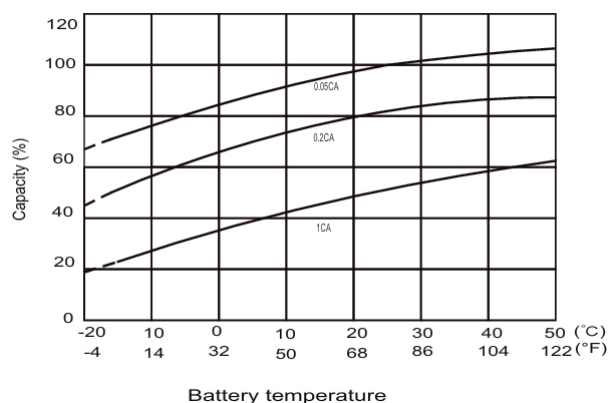
Discharge Characteristics



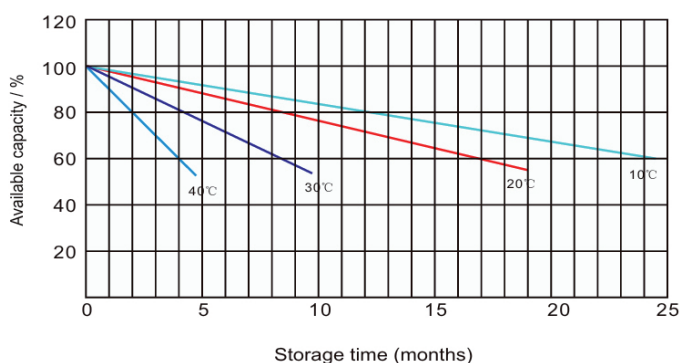
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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BCG200-12 | 12V 200Ah

Hybrid Gel Battery

BLACK BATT.

Specification

Rated Voltage	12V
Nominal Capacity (10 hour rate)	200Ah
Dimensions	Length 522 ± 3 mm (20.6 inches)
	Width 240 ± 3 mm (9.45 inches)
	Container Height 218 ± 3 mm (8.58 inches)
	Total Height 224 ± 3 mm (8.82 inches)
Approximate Weight	57.9 kg ± 3% (127.6 lbs)
Short-circuit current	3600A
Internal Resistance (25°C)	Approx. 3.2mΩ
Container Material	ABS
Operating Temp. Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cyclic charging voltage(25°C)	14.50 to 14.90V
	Temperature compensation: -30mV/°C
Standby usage(25°C)	13.60 to 13.80V
	Temperature compensation: -18mV/°C
Temperature Affect on the Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% per month at 25°C (77°F). Blackbatt batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Designed floating life (20°C)	10 years



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	215.6	180.3	142.5	108.2	89.5	56.9	44.2	36.4	30.9	26.9	21.9	18.6	10.0
1.80V/cell	256.7	210.0	164.0	122.8	99.6	61.9	47.5	38.7	33.2	28.9	23.4	20.0	10.3
1.75V/cell	286.1	230.6	174.8	129.9	105.4	64.8	49.2	40.0	34.0	29.7	23.8	20.2	10.4
1.70V/cell	309.1	245.2	184.4	136.4	110.0	68.0	50.9	41.2	34.9	30.3	24.1	20.3	10.6
1.67V/cell	325.5	258.0	193.1	140.5	113.9	69.9	52.8	42.4	35.7	31.0	24.5	20.5	10.7
1.60V/cell	350.9	277.1	205.2	148.5	119.4	72.5	54.7	43.4	36.4	31.6	24.8	20.8	10.8

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	405.4	342.5	273.0	209.0	173.5	110.9	86.5	71.3	60.7	53.1	43.4	36.9	19.9
1.80V/cell	476.5	393.4	310.4	235.3	192.0	119.9	92.4	75.6	65.0	56.8	46.1	39.7	20.5
1.75V/cell	524.3	427.5	328.0	246.8	202.1	125.2	95.5	77.9	66.4	58.2	46.8	40.0	20.6
1.70V/cell	557.6	450.4	343.5	257.7	210.1	130.9	98.5	80.0	68.0	59.3	47.4	40.2	21.0
1.67V/cell	581.5	469.4	356.5	263.3	216.1	133.7	101.7	82.1	69.4	60.4	48.0	40.5	21.2
1.60V/cell	616.6	498.6	375.7	276.6	225.4	138.0	104.8	83.7	70.5	61.5	48.5	41.1	21.3

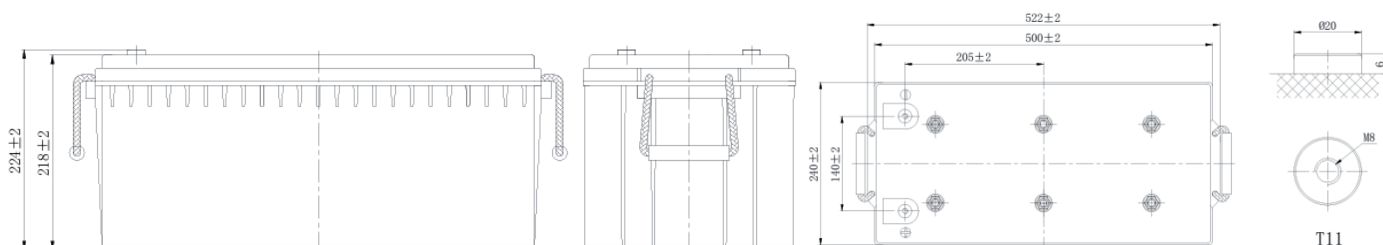
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BCG200-12 | 12V 200Ah

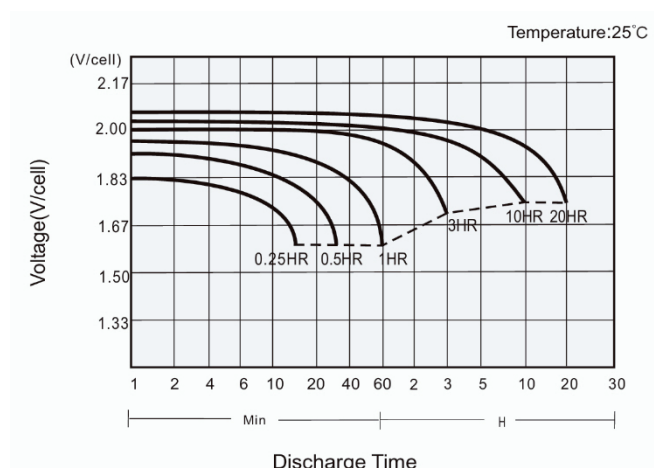
Hybrid Gel Battery

BLACK BATT.

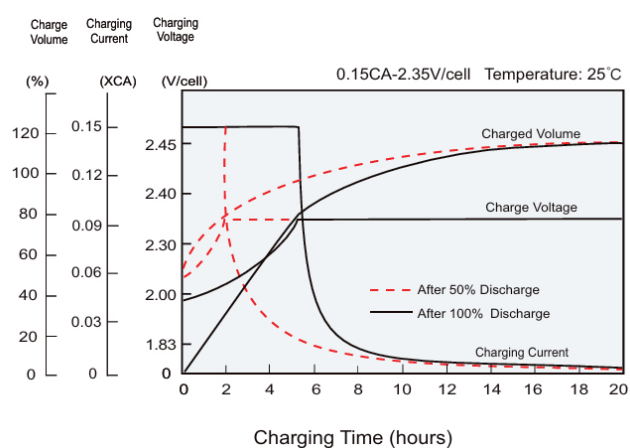
Dimensions | Terminal Type (unit:mm)



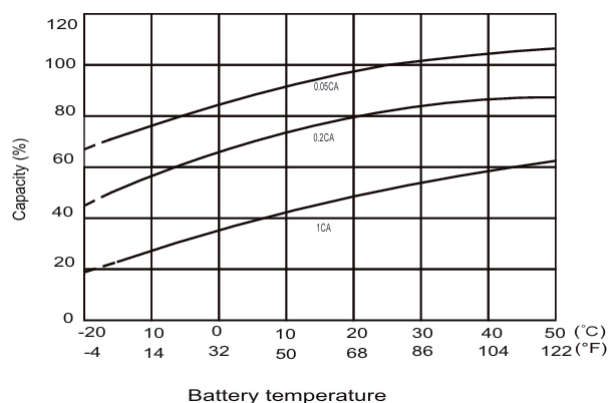
Discharge Characteristics



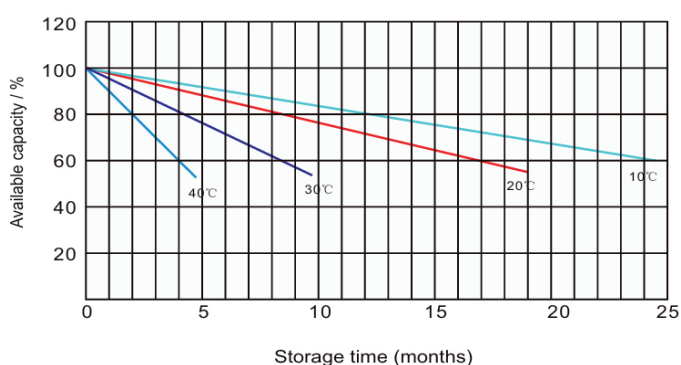
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC14Ah-6 DZF | 12V 15Ah

Deep Cycle AGM Battery

BLACK BATT.

Specification

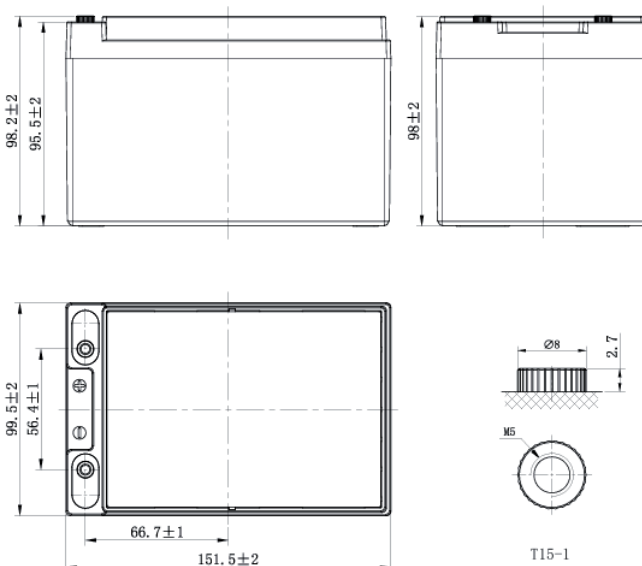
Rated Voltage	12V
Nominal Capacity (10 hour rate)	15Ah
Dimensions	Length 151.5 ± 3 mm (5.96 inches)
	Width 99.5 ± 3 mm (3.92 inches)
	Container Height 98 ± 3 mm (3.86 inches)
	Total Height 98.2 ± 3 mm (3.87 inches)
Approximate Weight	4.0 kg ± 3% (8.8 lbs)
Container Material	ABS
Operating Temp. Range	Discharge -20~55°C (-4~131°F)
	Charge 0~40°C (32~104°F)
	Storage -15~40°C (5~104°F)
Capacity	20 HR 15Ah
	5 HR 13.5Ah
Applications	Electric scooter
	Electric wheelchair
	Electric toys
	Plate assembly pressure re-engineering
Excellent deep cycle performance	New PAM/NAM recipe introduced
	Gel electrolyte technology
	Double layer separator technology
Designed floating life (20°C)	5 years



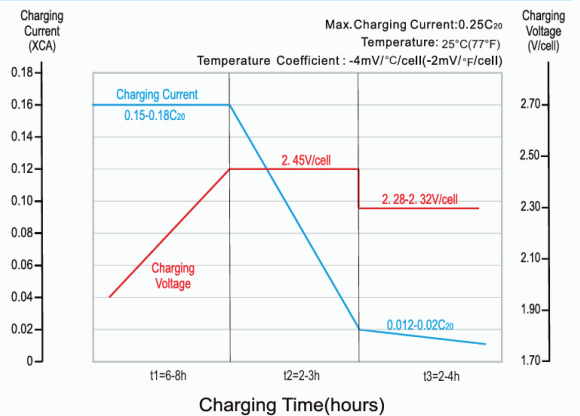
carbon



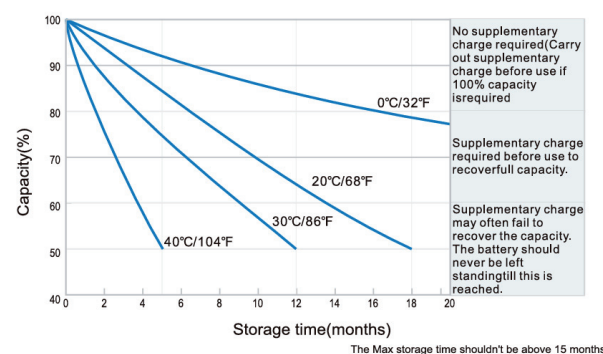
Dimensions | Terminal Type (unit:mm)



Charging Profiles



Self-discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC24Ah-6 DZF | 12V 25Ah

Deep Cycle AGM Battery

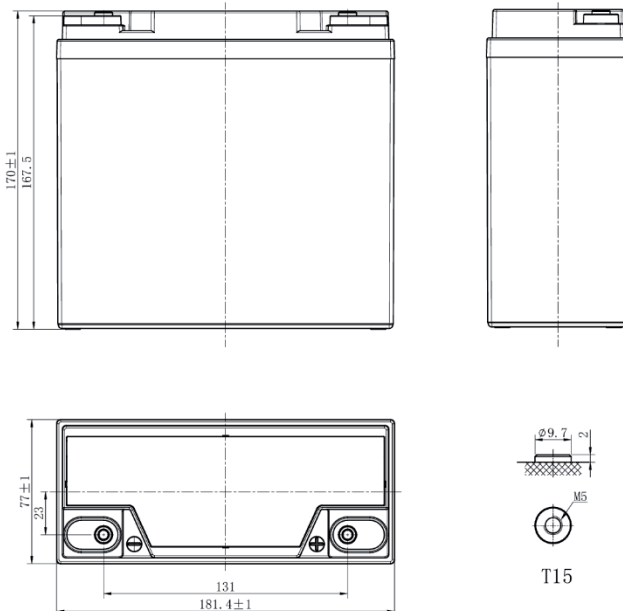
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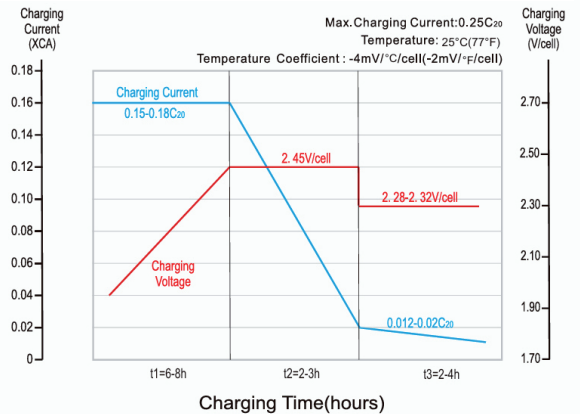
Rated Voltage	12V
Nominal Capacity (10 hour rate)	25Ah
Dimensions	Length 181.4 ± 3 mm (7.15 inches)
	Width 77 ± 3 mm (3.03 inches)
	Container Height 170 ± 3 mm (6.69 inches)
	Total Height 170 ± 3 mm (6.69 inches)
Approximate Weight	6.4 kg ± 3% (14.1 lbs)
Container Material	ABS
Operating Temp. Range	Discharge -20~55°C (-4~131°F)
	Charge 0~40°C (32~104°F)
	Storage -15~40°C (5~104°F)
Capacity	20 HR 25Ah
	5 HR 22.6Ah
Applications	Electric vehicle
	Golf cart
	Cleaning equipment
	Plate assembly pressure re-engineering
	New PAM/NAM recipe introduced
Excellent deep cycle performance	Gel electrolyte technology
	Double layer separator technology
Designed floating life (20°C)	5 years



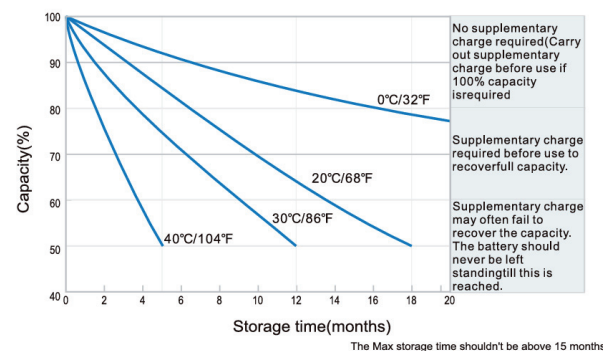
Dimensions | Terminal Type (unit:mm)



Charging Profiles



Self-discharge Characteristics



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BC80Ah-6 EVF | 12V 80Ah

Deep Cycle AGM Battery

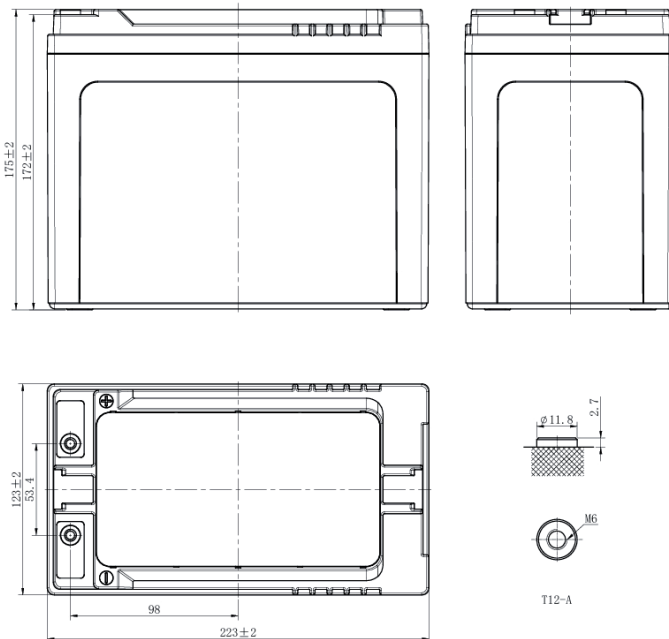
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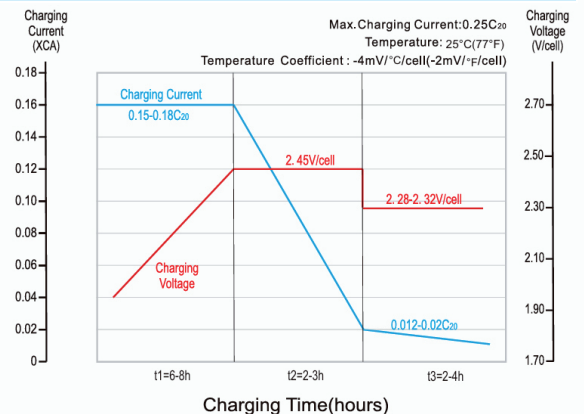
Rated Voltage	12V
Nominal Capacity (10 hour rate)	80Ah
Dimensions	Length 223 ± 3 mm (8.78 inches)
	Width 123 ± 3 mm (4.84 inches)
	Container Height 175 ± 3 mm (6.89 inches)
	Total Height 175 ± 3 mm (6.89 inches)
Approximate Weight	13.4 kg ± 3% (29.5 lbs)
Container Material	ABS
Operating Temp. Range	Discharge -20~55°C (-4~131°F)
	Charge 0~40°C (32~104°F)
	Storage -15~40°C (5~104°F)
Capacity	20 HR 80Ah
	5 HR 70Ah
Applications	Electric vehicle
	Golf cart / Mobility
	Cleaning equipment
	Plate assembly pressure re-engineering
Excellent deep cycle performance	New PAM/NAM recipe introduced
	Gel electrolyte technology
	Double layer separator technology
Designed floating life (20°C)	10 years



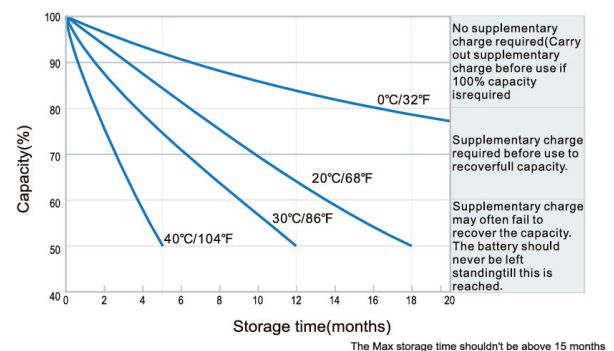
Dimensions | Terminal Type (unit:mm)



Charging Profiles



Self-discharge Characteristics



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BC100-6 EVF | 12V 100Ah

Deep Cycle AGM Battery

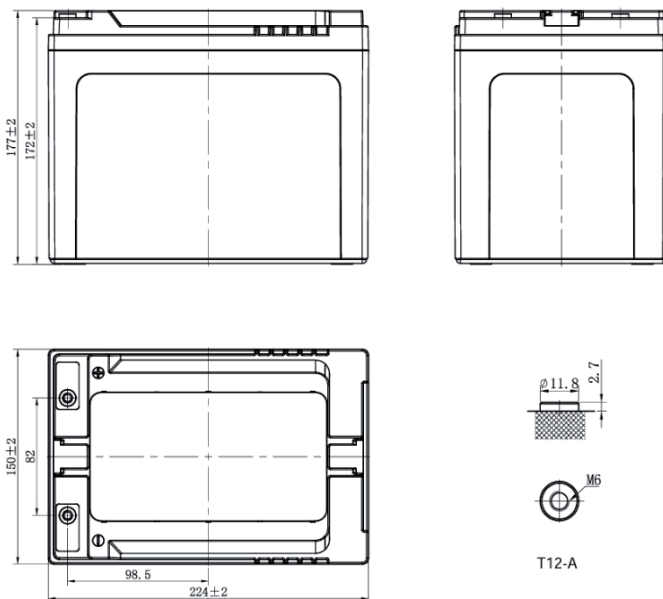
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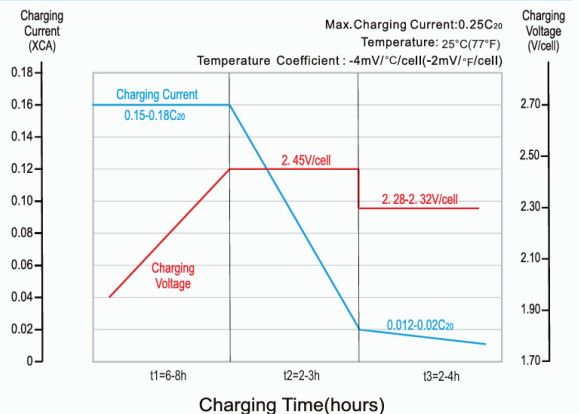
Rated Voltage	12V
Nominal Capacity (10 hour rate)	100Ah
Dimensions	Length 224 ± 3 mm (8.82inches)
	Width 150 ± 3 mm (5.91inches)
	Container Height 177 ± 3 mm (6.97 inches)
	Total Height 178 ± 3 mm (6.97 inches)
Approximate Weight	16.8 kg ± 3% (37.0 lbs)
Container Material	ABS
Operating Temp. Range	Discharge -20~55°C (-4~131°F)
	Charge 0~40°C (32~104°F)
	Storage -15~40°C (5~104°F)
Capacity	20 HR 100Ah
	5 HR 85Ah
Applications	Electric vehicle
	Golf cart / Mobility
	Cleaning equipment
	Plate assembly pressure re-engineering
	New PAM/NAM recipe introduced
Excellent deep cycle performance	Gel electrolyte technology
	Double layer separator technology
Designed floating life (20°C)	10 years



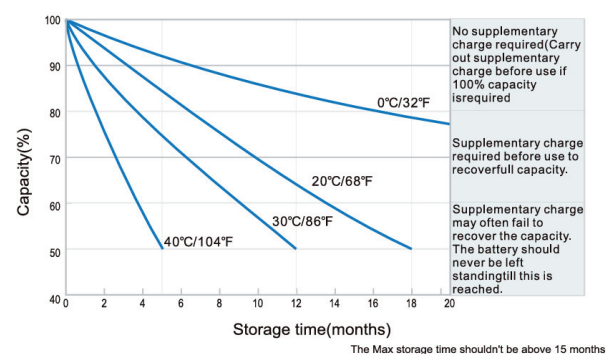
Dimensions | Terminal Type (unit:mm)



Charging Profiles



Self-discharge Characteristics



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BC100-12 MDC| 12V 100Ah

Deep Cycle AGM Battery

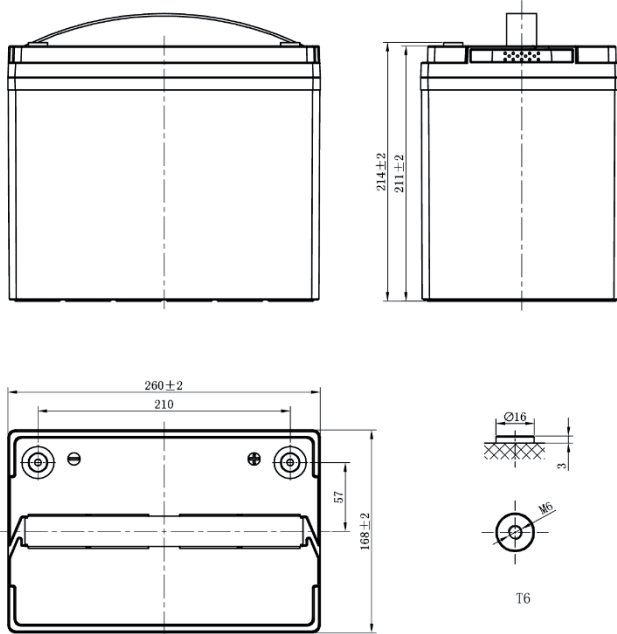
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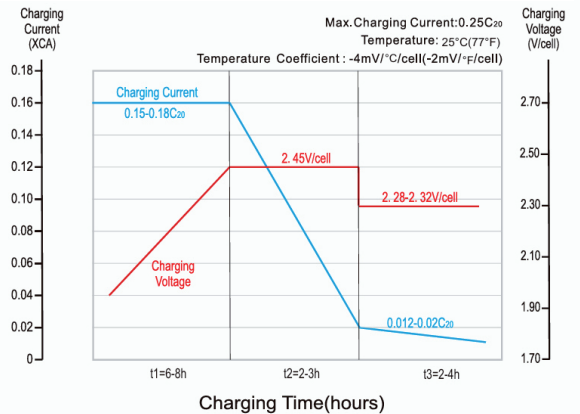
Rated Voltage	12V
Nominal Capacity (10 hour rate)	100Ah
Dimensions	Length 260 ± 3 mm (10.2inches)
	Width 168 ± 3 mm (6.61inches)
	Container Height 211 ± 3 mm (8.31 inches)
	Total Height 214 ± 3 mm (8.43 inches)
Approximate Weight	25.8 kg ± 3% (56.9 lbs)
Container Material	ABS
Operating Temp. Range	Discharge -20~55°C (-4~131°F)
	Charge 0~40°C (32~104°F)
	Storage -15~40°C (5~104°F)
Capacity	20 HR 100Ah
	5 HR 89Ah
Applications	Electric vehicle
	Golf cart / Mobility
	Cleaning equipment
	Plate assembly pressure re-engineering
	New PAM/NAM recipe introduced
Excellent deep cycle performance	Gel electrolyte technology
	Double layer separator technology
Designed floating life (20°C)	10 years



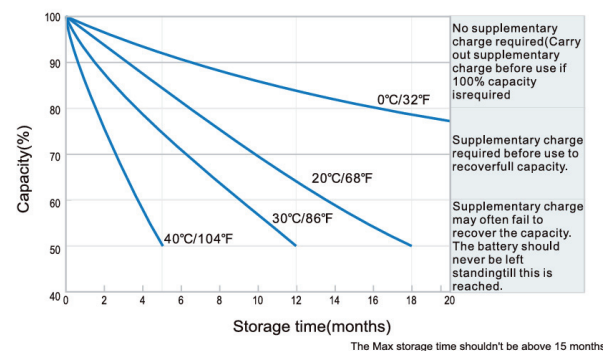
Dimensions | Terminal Type (unit:mm)



Charging Profiles



Self-discharge Characteristics



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BC115-12 MDC| 12V 115Ah

Deep Cycle AGM Battery

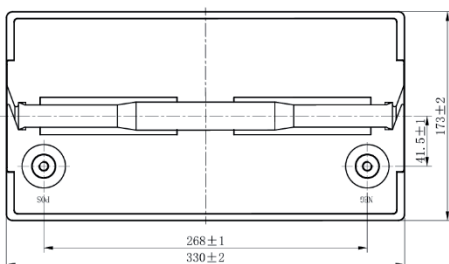
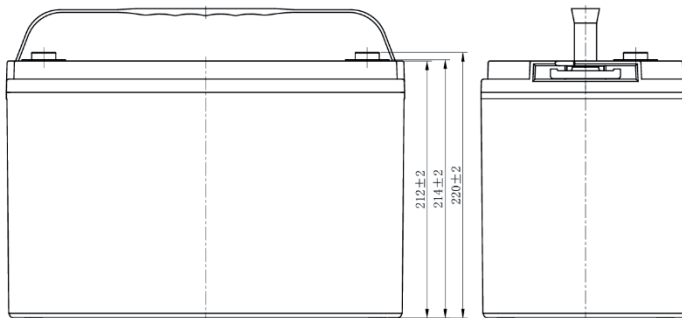
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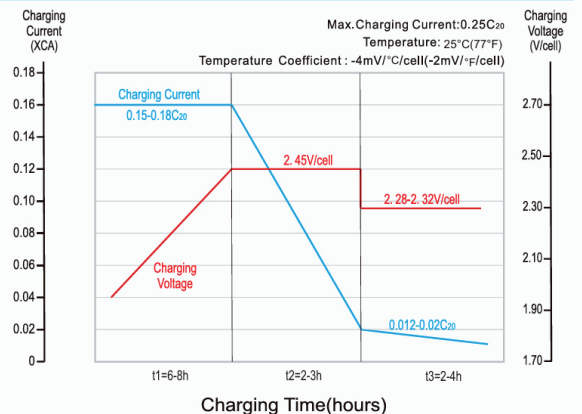
Rated Voltage	12V
Nominal Capacity (10 hour rate)	115Ah
Dimensions	Length 330 ± 3 mm (13.0inches)
	Width 173 ± 3 mm (6.81inches)
	Container Height 212 ± 3 mm (8.35 inches)
	Total Height 220 ± 3 mm (8.66 inches)
Approximate Weight	31.4 kg ± 3% (69.2 lbs)
Container Material	ABS
Operating Temp. Range	Discharge -20~55°C (-4~131°F)
	Charge 0~40°C (32~104°F)
	Storage -15~40°C (5~104°F)
Capacity	20 HR 115Ah
	5 HR 95Ah
Applications	Electric vehicle
	Golf cart / Mobility
	Cleaning equipment
Excellent deep cycle performance	Plate assembly pressure re-engineering
	New PAM/NAM recipe introduced
	Gel electrolyte technology
Designed floating life (20°C)	Double layer separator technology
	10 years



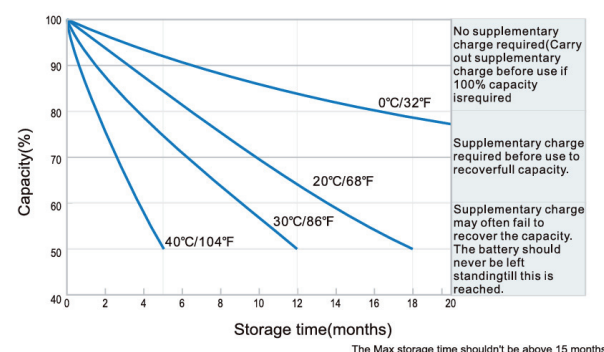
Dimensions | Terminal Type (unit:mm)



Charging Profiles



Self-discharge Characteristics



Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

BC245-6 MDC | 6V 245Ah

Deep Cycle AGM Battery

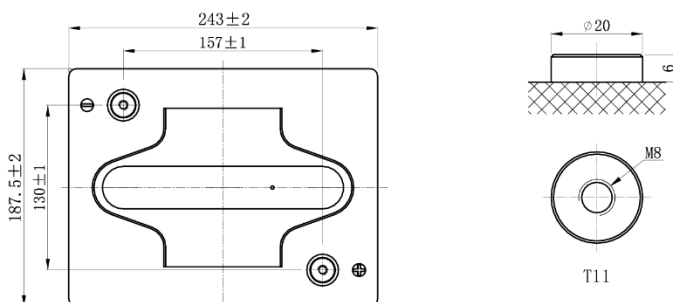
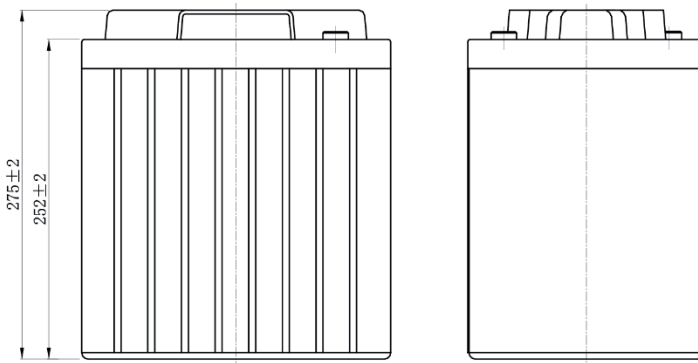
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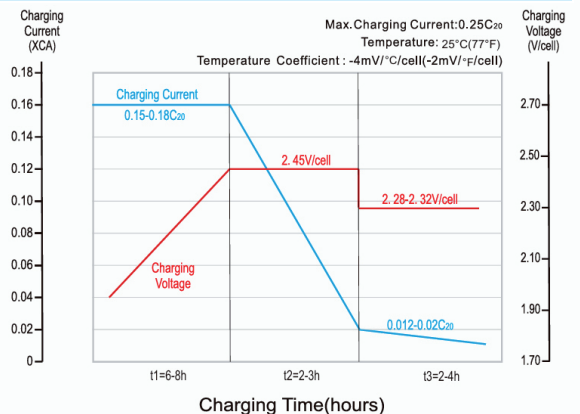
Rated Voltage	6V
Nominal Capacity (10 hour rate)	245Ah
Dimensions	Length 243 ± 3 mm (9.57inches)
	Width 187.5 ± 3 mm (7.38inches)
	Container Height 275 ± 3 mm (10.8 inches)
	Total Height 275 ± 3 mm (10.8 inches)
Approximate Weight	32.4 kg ± 3% (71.4 lbs)
Container Material	ABS
Operating Temp. Range	Discharge -20~55°C (-4~131°F)
	Charge 0~40°C (32~104°F)
	Storage -15~40°C (5~104°F)
	20 HR 245Ah
Capacity	5 HR 210Ah
Applications	Electric vehicle
	Golf cart / Mobility
	Cleaning equipment
	Plate assembly pressure re-engineering
Excellent deep cycle performance	New PAM/NAM recipe introduced
	Gel electrolyte technology
	Double layer separator technology
Designed floating life (20°C)	10 years



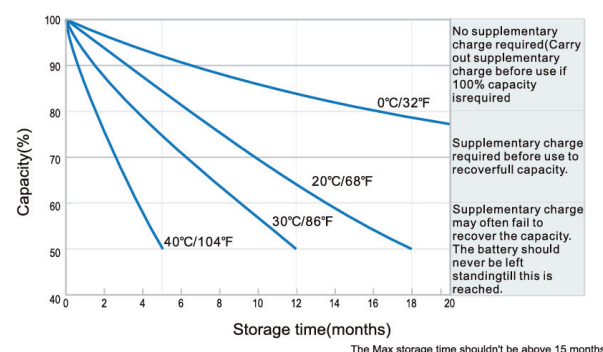
Dimensions | Terminal Type (unit:mm)



Charging Profiles



Self-discharge Characteristics



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