



Gel Battery

WPPDG12-100S(12V100A h)

WPP

OWER

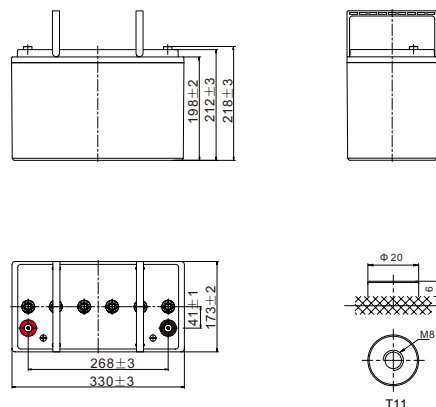
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Specifications

Rated Voltage	12V		
Nominal Capacity	100Ah	(C ₂₀ , 1.80V/cell)	
Dimension	Length	330±3mm (13.0 inches)	
	Width	173±2mm (6.81 inches)	
	Container Height	212±3mm (8.35 inches)	
	Total Height	218±3mm (8.58 inches)	
Approx Weight	30.8 Kg (67.9 lbs)		
Terminal	T11(M8)		
Container Material	ABS		
Rated Capacity (25°C)	100.0 Ah	(20hr,5.00A, 1.80V/cell)	
	97.1 Ah	(10hr,9.71A, 1.80V/cell)	
	82.5 Ah	(5hr, 16.5A, 1.75V/cell)	
	71.7 Ah	(3hr,23.9A, 1.75V/cell)	
	55.3 Ah	(1hr,55.3A, 1.65V/cell)	
Max. Discharge Current	1000A (5s)		
Internal Resistance (25°C)	Approx 4.9mΩ		
Operating Temp.Range	Discharge : -20 ~ 55°C (-4 ~ 131°F)		
	Charge : -20 ~ 40°C (-4 ~ 104°F)		
	Storage : -20 ~ 50°C (-4 ~ 122°F)		
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Cycle Use	Initial Charging Current less than 25.0A.Voltage 14.2V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C		
Standby Use	Initial Charging Current less than 25.0A. Voltage 13.6V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C		
Effect of temp. to Capacity	40°C (104°F)		103%
	25°C (77°F)		100%
	0°C (32°F)		86%
Self Discharge	Batteries may be stored for 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.		



Layout



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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	156.5	123.1	104.7	87.6	69.1	52.5	43.5	27.7	21.5	17.7	15.0	13.1	10.7	9.01	4.85
1.80V/cell	207.1	155.0	124.6	101.9	79.6	59.6	48.3	30.0	23.1	18.8	16.1	14.0	11.4	9.71	5.00
1.75V/cell	238.3	173.8	138.9	111.9	84.9	63.0	51.2	31.5	23.9	19.4	16.5	14.4	11.6	9.81	5.05
1.70V/cell	265.4	191.7	150.0	119.0	89.5	66.2	53.4	33.0	24.8	20.0	17.0	14.8	11.7	9.90	5.15
1.65V/cell	289.9	204.8	158.0	125.2	93.8	68.2	55.3	33.9	25.6	20.6	17.4	15.0	11.8	10.0	5.19
1.60V/cell	322.3	224.2	170.4	134.5	99.6	72.1	58.0	35.1	26.5	21.1	17.7	15.3	12.0	10.1	5.24

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	288.3	229.0	196.8	166.2	132.5	101.5	84.3	53.8	41.9	34.7	29.5	25.7	21.1	17.9	9.65
1.80V/cell	377.7	285.2	231.4	191.0	150.7	114.3	93.2	58.2	44.9	36.7	31.6	27.6	22.4	19.2	9.90
1.75V/cell	425.0	314.6	254.6	207.5	159.2	119.8	98.2	60.8	46.3	37.8	32.2	28.3	22.7	19.4	10.0
1.70V/cell	459.7	338.4	270.7	218.6	166.8	125.1	101.9	63.6	47.8	38.8	33.0	28.7	23.0	19.5	10.2
1.65V/cell	494.0	357.7	282.2	227.9	173.0	127.9	105.0	65.0	49.4	39.8	33.7	29.3	23.3	19.7	10.3
1.60V/cell	536.5	382.6	299.3	242.0	182.3	134.3	109.4	67.0	50.9	40.6	34.2	29.9	23.6	20.0	10.4



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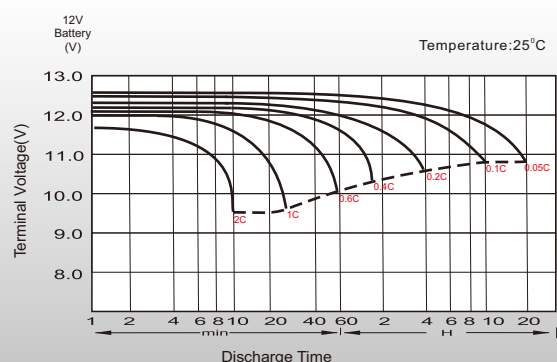
Applications

- Communication power supply
- Solar system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats

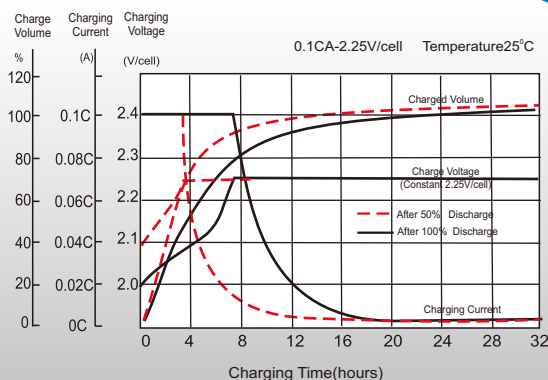
General Features

- Battery design life up to 12 years
- High thermal capacity reduce the risk of thermal out of control and drying hard, and the battery can be used in bad environment
- Little water losing, and no electrolyte stratification phenomenon

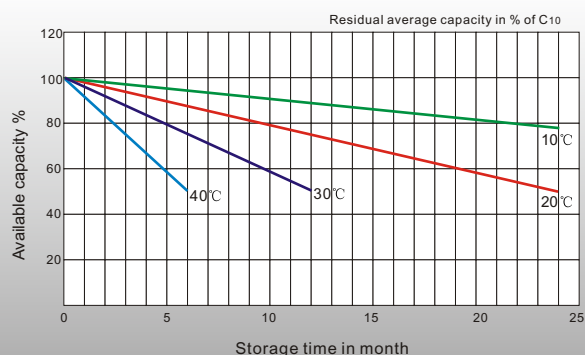
Discharge Characteristics



Float Charging Characteristics



General Relation of Capacity VS. Storage Time



Effect of Temperature on Long Term Float Life

