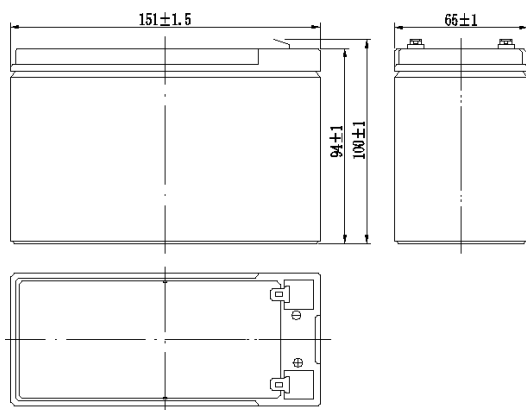


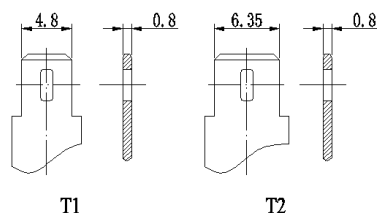
Specifications

Nominal Voltage		12 V
Number of cell		6 cells
Rated capacity(15min.rate)		34 Watts/cell
Dimension	Length	151 ± 1.5mm (5.94inch)
	Width	65 ± 1mm (2.56inch)
	Height	94 ± 1mm (3.70inch)
	Total Height	100 ± 1mm (3.94inch)
Approx. Weight		2.5kg (5.51lbs) ± 4%

Dimensions



Terminal



Characteristics

Capacity(10HR, 25℃)		9 Ah
Capacity(15min.rate, 25℃)		34 Watts/cell
Terminal type		T2/T1
Internal resistance (Fully charged, 25℃)		Approx. 20m Ω
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25℃ ± 3℃ (77°F ± 5°F)
Operating temperature range	Discharge	-15℃ ~ 50℃ (5°F ~ 122°F)
	Charge	-10℃ ~ 50℃ (14°F ~ 122°F)
	Storage	-20℃ ~ 50℃ (-4°F ~ 122°F)
Float charging voltage(25℃)		13.50 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 15.00V Temperature compensation: -30mV/℃
Maximum charging current		2.7A
Terminal material		Copper
Maximum discharge current		135A(5 sec.)
Designed floating life(20℃)		10 years
Container Material		Flame Retardant ABS(UL 94-V0) Model Name: SPL9-12 34W FR

Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

Constant Current Discharge Characteristics (A, 25℃)

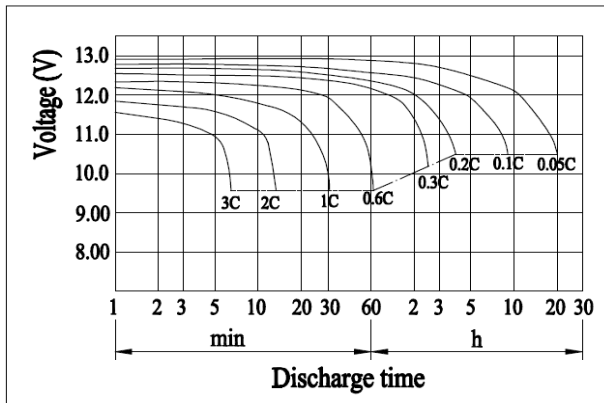
F.V/TIME	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	36.7	22.6	17.8	14.1	9.53	7.05	5.77	3.16	2.25	1.81	1.55
1.67V/cell	35.1	21.6	17.1	13.5	9.22	6.83	5.63	3.13	2.23	1.79	1.54
1.70V/cell	34.2	21.0	16.7	13.2	9.05	6.70	5.54	3.11	2.22	1.78	1.53
1.75V/cell	32.7	20.1	16.1	12.8	8.83	6.54	5.43	3.07	2.20	1.77	1.52
1.80V/cell	30.9	19.0	15.3	12.1	8.51	6.30	5.26	2.99	2.14	1.72	1.48

Constant Power Discharge Characteristics (Watt, 25℃)

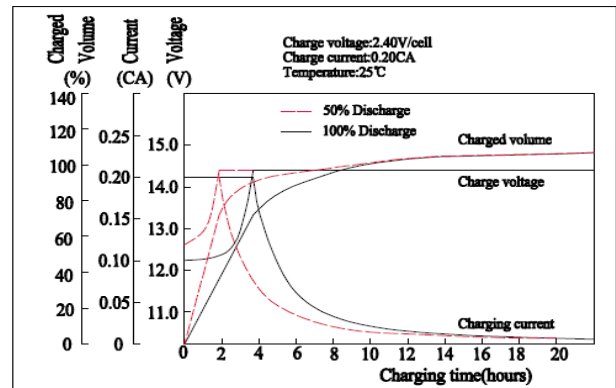
F.V/TIME	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	70.5	43.9	35.2	27.8	18.9	14.0	11.4	6.29	4.51	3.63	3.12
1.67V/cell	67.3	41.9	34.0	26.7	18.3	13.5	11.1	6.23	4.47	3.60	3.09
1.70V/cell	65.6	40.8	33.1	26.2	17.9	13.3	11.0	6.20	4.46	3.59	3.08
1.75V/cell	62.8	39.1	31.9	25.3	17.5	12.9	10.8	6.10	4.43	3.56	3.06
1.80V/cell	59.2	36.9	30.3	23.9	16.8	12.5	10.4	5.95	4.29	3.45	2.97

Note: The above characteristics data can be obtained within three charge/discharge cycles.

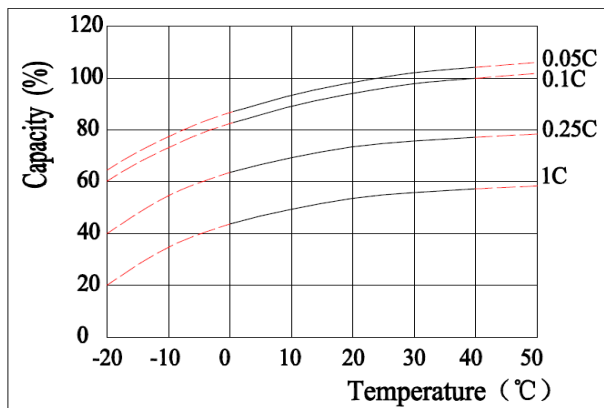
Discharge Characteristics(25°C)



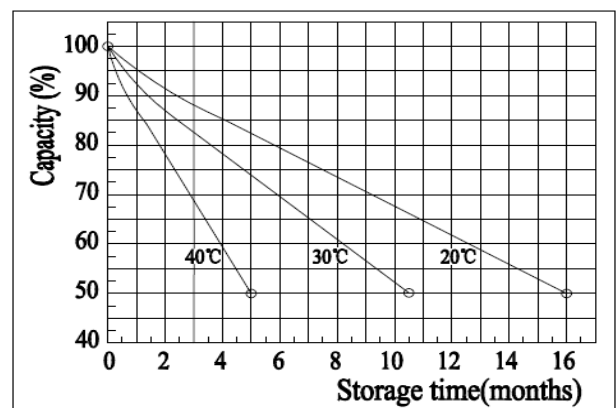
Charging Characteristics(25°C)



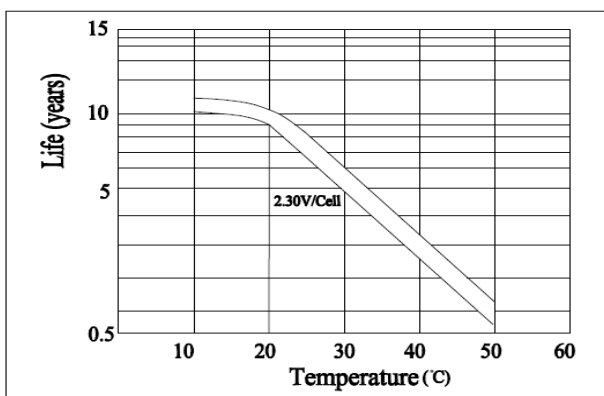
Effect of Temperature on Capacity



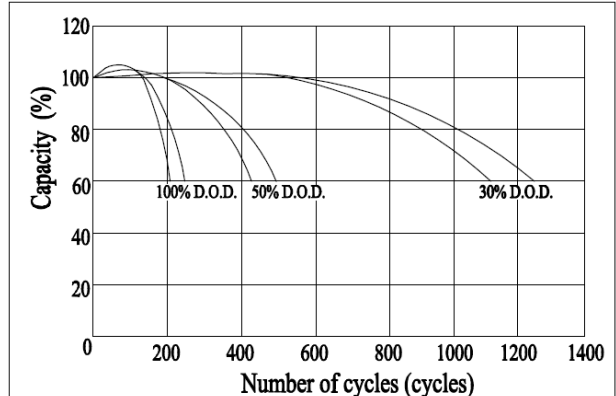
Self-discharge Characteristics



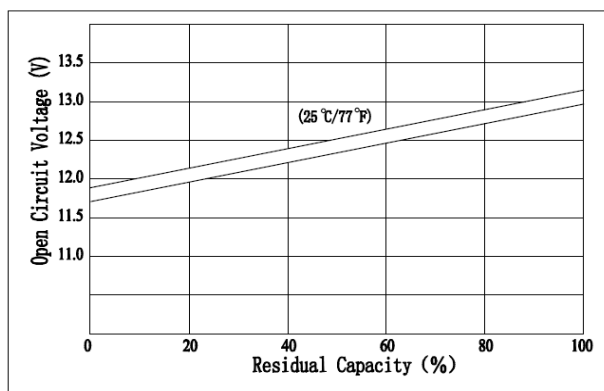
Floating Life on Temperature



Cycle Life on D.O.D(25°C)



The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature

