

SPT12-12_(12V12AH)

Features

Maintenance-free operation
Compact design

Stable quality and high reliability
5years design time (at 25°C)



Application

- Telecommunication system
- Alarm and security system
- Backup power for testing and measuring instruments
- UPS
- Emergency lighting
- Fire alarm and security systems
- Auto control system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply

Specifications

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15 50°C (5 122°F)
Nominal Capacity	12AH (20hr, 1.80V/cell, 25 °C/76°F)		Charge : 0 40°C (32 104°F)
	11.3AH (10hr, 1.80V/cell, 25 °C/77°F)	Storage : -15 40°C (5 104°F)	
	10.2AH (5hr, 1.75V/cell, 25 °C/77°F)	Nominal Operating Temp.Range	25 ±3 °C (77 ± 5°F)
	7.2AH (1hr, 1.60V/cell, 25 °C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C Initial Charging Current Less than 3.6A
Dimension	Length 151 ± 2mm	Standby Use	13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C No limit on Initial Charging Current
	Width 98 ± 2mm		40°C (104°F) 103%
	Container Height 95 ± 2mm	Capacity affected by Temperature	25°C (77°F) 100%
	Total Height(with Terminal) 101 ± 2mm		0°C (32°F) 86%
Approx Weight	Approx 3.80Kg	Self Discharge	SunstoneSPT series 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.
Terminal	F1 or F2		
Container Material	ABS		
Max. Discharge Current	180A (5S)		
Internal Resistance	Approx 15mΩ		

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

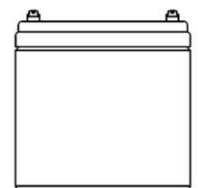
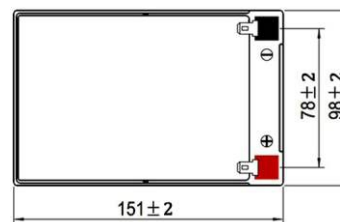
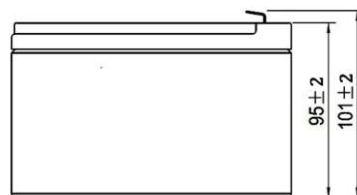
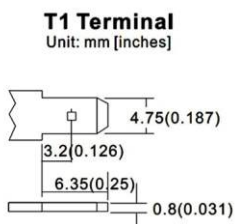
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	29.69	21.37	17.43	10.87	8.27	6.48	3.90	2.90	2.01	1.15	0.061
1.75V/cell	33.73	24.18	18.90	11.32	8.59	6.81	4.01	3.00	2.06	1.17	0.611
1.70V/cell	36.83	26.08	20.42	11.70	8.87	7.01	4.12	3.07	2.10	1.18	0.617
1.65V/cell	40.08	28.08	21.58	12.34	9.23	7.28	4.24	3.15	2.14	1.19	0.626
1.60V/cell	43.65	30.57	22.57	12.57	9.57	7.45	4.35	3.21	2.18	1.21	0.632

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	55.53	38.16	33.07	20.42	15.72	12.86	7.50	5.67	3.98	2.27	1.19
1.75V/cell	61.38	43.23	34.73	21.25	16.37	13.15	7.70	5.80	4.04	2.30	1.21
1.70V/cell	65.55	45.94	36.54	21.97	16.90	13.33	7.89	5.91	4.08	2.32	1.22
1.65V/cell	71.34	48.55	37.88	23.16	17.39	13.77	8.05	6.02	4.17	2.34	1.23
1.60V/cell	76.83	51.49	39.52	23.88	17.85	14.20	8.21	6.13	4.23	2.35	1.24

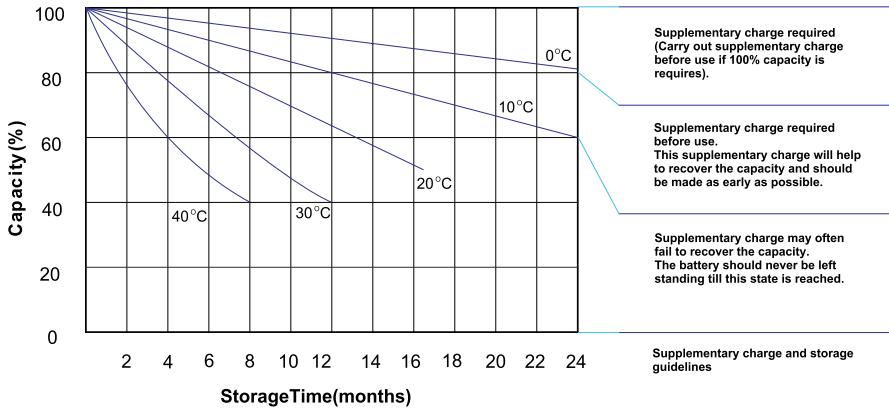
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

Dimensios unitimm[inches]

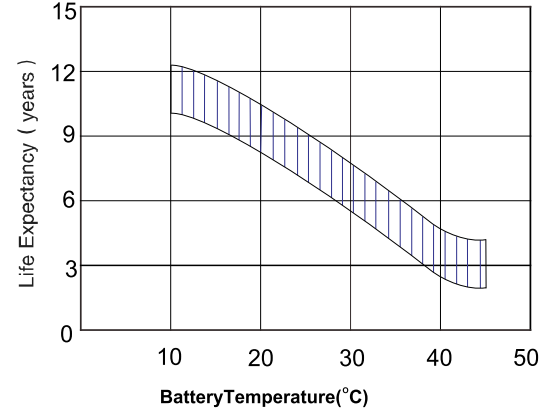


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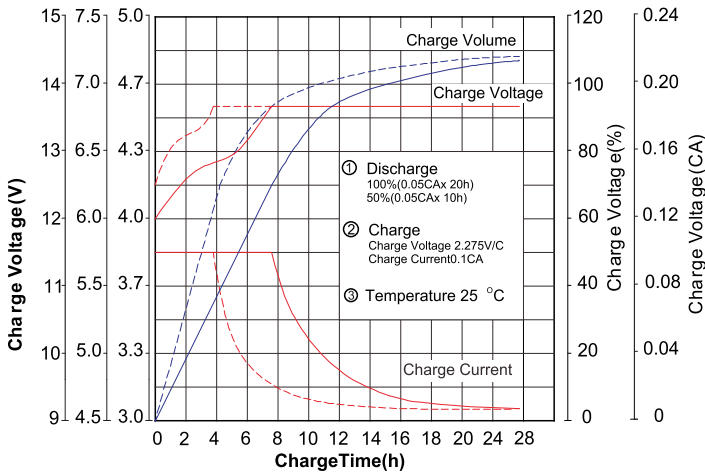
Storage characteristics



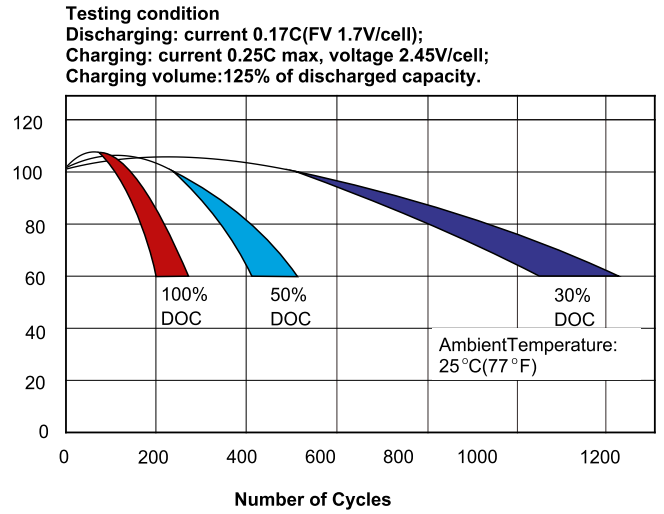
Effect of temperature on long term float life



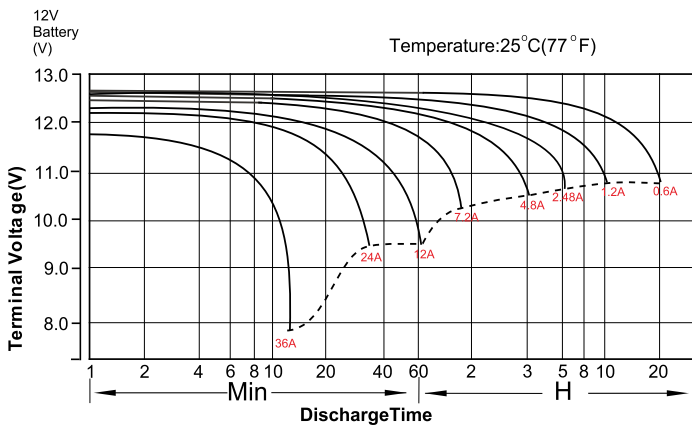
Charge characteristic Curve for standby use



Cycle Life in Relation to Depth of Discharge



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity

