

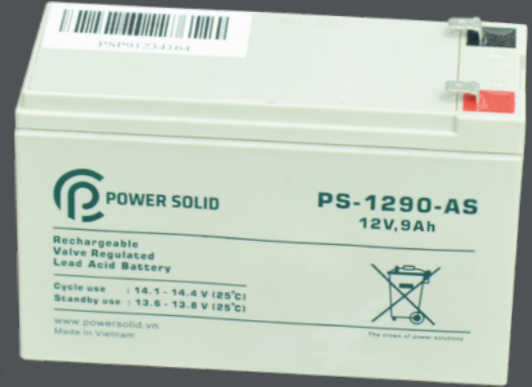


General Features

- Designed floating charging service life: 8 years (25°C)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- Low self-discharge characteristic
- Wide operating temperature range from 0°C~40°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion
- Maximum Discharge Current : 90 Amperes for 5 seconds

Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipments
- Emergency lighting systems



Constant-Voltage Charge

Rated Capacity		Cycle Application	
20 hour rate (0.45A)	9.00AH	1. Limit initial current less than 2.25A.	
10 hour rate (0.90A)	8.30AH	2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).	
5 hour rate (1.53A)	7.45AH	3. Hold at 14.1V to 14.4V until current drop to under 0.054A for at least 3 hours.	
27 minute rate(9.0A)	4.50AH	4. Temperature compensation coefficient of charging voltage is -30mV/°C.	
7 minute rate (27.0A)	3.60AH	Standby Service	
Capacity affected by Temperature		1. Hold battery across constant voltage source of 13.6to 13.8 volts with current limit 2.25A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.	
40°C(104°F)	103%	2. Temperature compensation coefficient of charging voltage is -18mV/°C.	
25°C(77°F)	100%		
0°C(32°F)	86%		

Battery Discharge Table

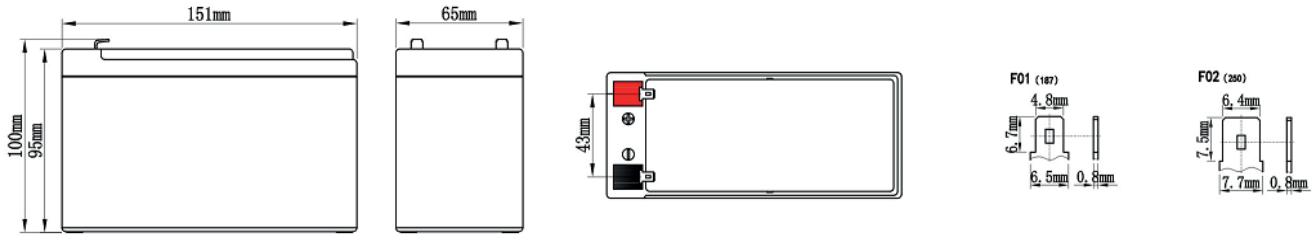
End Voltage (V)	Minute (M)					Hour (H)								
	5	10	15	30	45	1	1.5	2	3	5	8	10	20	
Constant Current Discharge Data Sheet (Amperes at 25°C)														
10.20	33.3	21.7	17.0	8.72	6.29	5.40	4.31	3.21	2.42	1.55	1.04	0.853	0.45	
10.50	33.0	21.5	16.8	8.59	6.22	5.37	4.23	3.08	2.34	1.51	1.03	0.844	0.455	
10.80	32.6	21.3	16.7	8.51	6.15	5.32	4.14	2.96	2.25	1.49	1.02	0.836	0.450	
Constant Power Discharge Data Sheet (Watt at 25°C)														
10.20	362	261	211	119.3	86.98	66.17	50.75	38.18	27.25	17.96	12.65	10.24	5.51	
10.50	347	252	205	116.8	84.98	65.12	50.01	37.64	26.63	17.75	12.55	10.08	5.43	
10.80	329	243	198	113.5	82.82	64.04	49.26	37.10	26.17	17.55	12.42	9.91	5.36	



Physical Specification

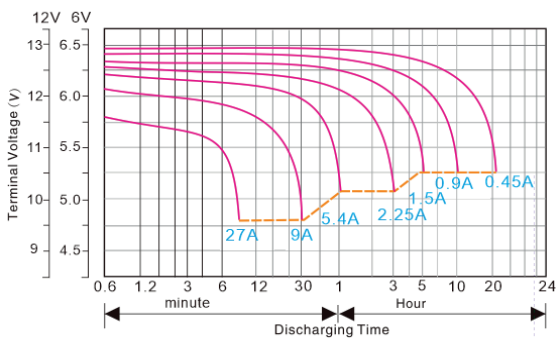
Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	9.0AH	151±2mm	65±2mm	95±2mm	100±2mm	Approx2.55kg (5.62lbs)	≈13.5 mΩ	F01/F02 (standard)

Dimensions(mm)

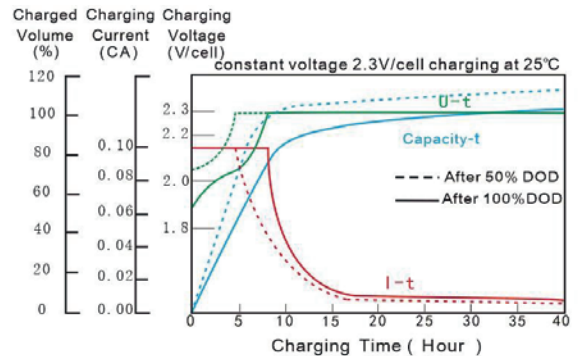


Performance Characteristics

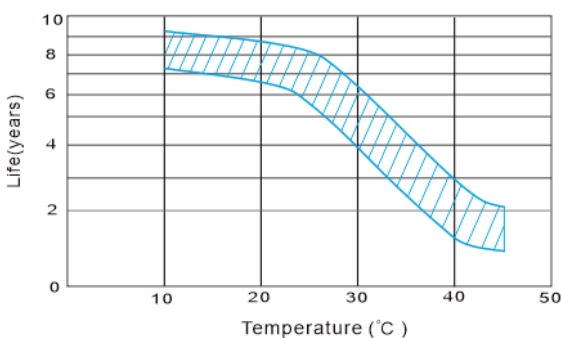
Discharge Characteristic (25°C/77°F)



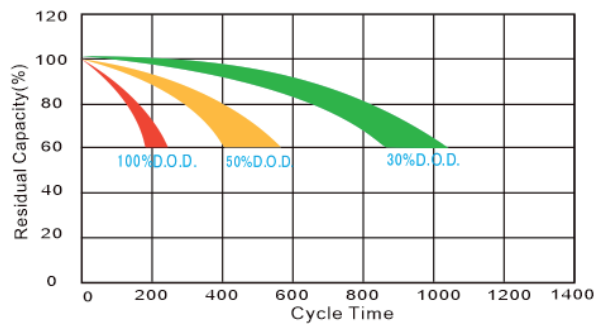
Charge Characteristics (25°C/77°F)



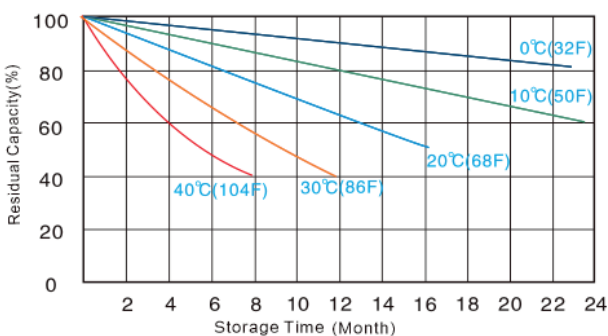
Temperature vs Float Life



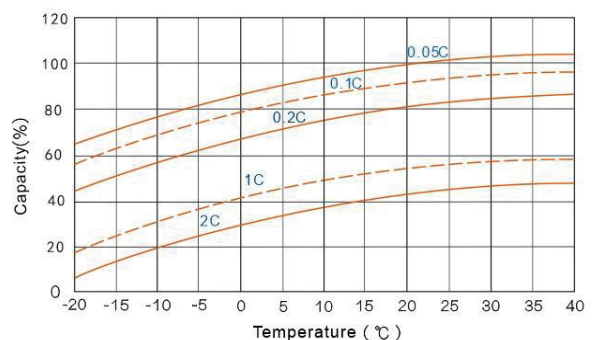
Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Capacity Curve At Different Temperature



The Crown of Power Solution