



POWER SOLID

The Crown of Power Solution

VRLA AGM Battery

PS-1270-AS

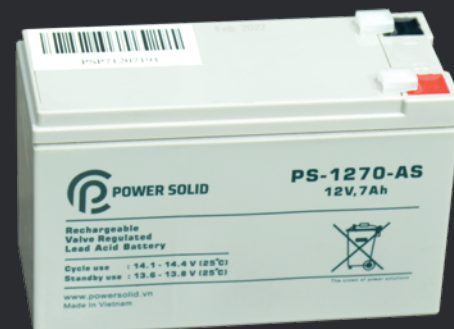
12V, 7Ah

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 : 70 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	
20 hour rate (0.35A)	7.01AH
10 hour rate (0.70A)	6.55AH
5 hour rate (1.19A)	5.80AH
27 minute rate(7.0A)	3.50AH
7 minute rate (21.0A)	2.45AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

Cycle Application
1. Limit initial current less than 1.75A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.042A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 1.75A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/°C.

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	26.3	17.1	13.4	6.84	4.96	4.24	3.38	2.52	1.90	1.22	0.820	0.672	0.360
10.50	26.1	16.9	13.3	6.78	4.91	4.21	3.32	2.43	1.84	1.19	0.810	0.666	0.356
10.80	25.8	16.7	13.1	6.71	4.86	4.18	3.26	2.33	1.78	1.17	0.800	0.659	0.351
Constant Power Discharge Data Sheet (Watt at 25°C)													
10.20	282	203.4	164.7	93.00	67.80	51.58	39.56	29.76	21.24	14.00	9.86	7.98	4.30
10.50	270	196.7	159.8	91.08	66.24	50.76	38.98	29.34	20.76	13.84	9.78	7.86	4.24
10.80	256	189.4	154.6	88.44	64.56	49.92	38.40	28.92	20.40	13.68	9.68	7.73	4.18



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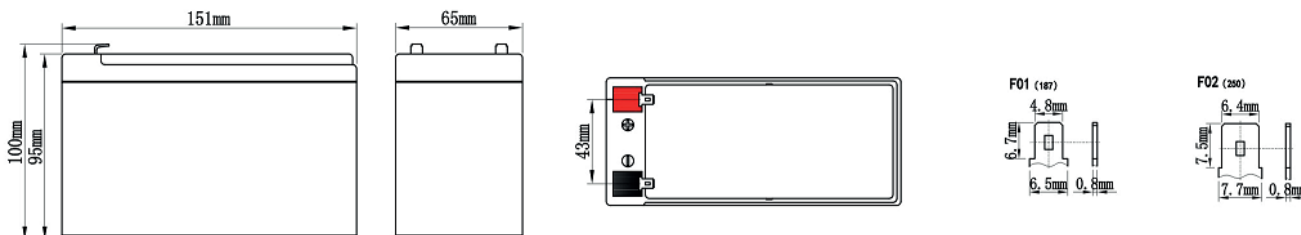
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12V , 7Ah

Physical Specifications

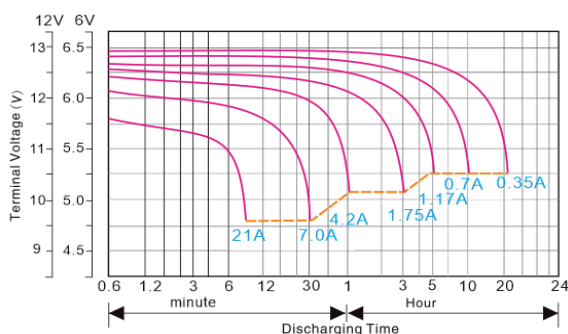
Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight $\pm 3\%$	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	7.0AH	151 \pm 2mm	65 \pm 2mm	95 \pm 2mm	100 \pm 2mm	Approx 2.04kg (4.50lbs)	$\approx 22 \text{ m}\Omega$	F01/F02 (standard)

Dimensions(mm)

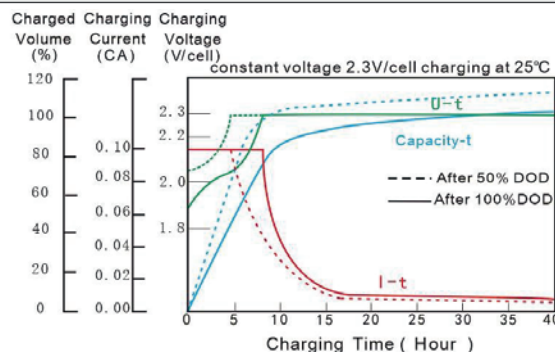


Performance Characteristics

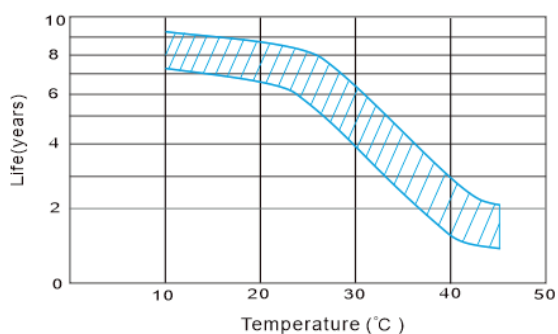
Discharge Characteristic (25°C/77°F)



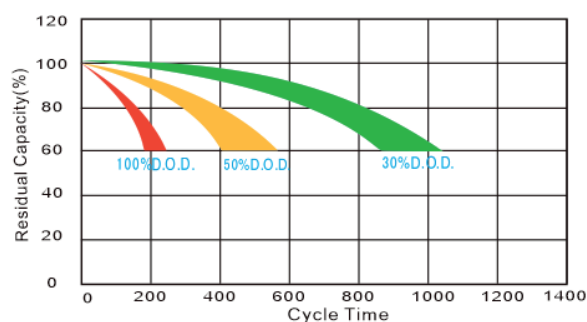
Charge Characteristics (25°C/77°F)



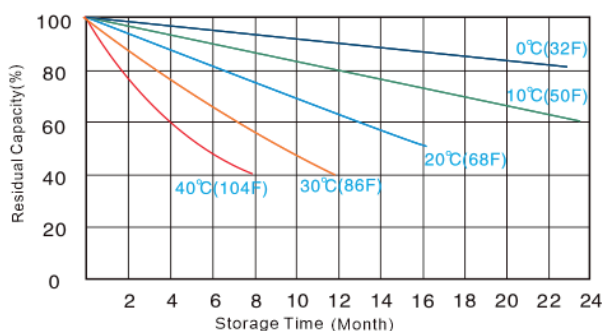
Temperature vs Float Life



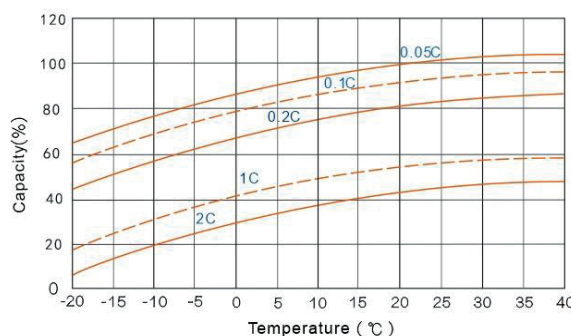
Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Capacity Curve At Different Temperature



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