



POWER SOLID

The Crown of Power Solution

GEL Deep Cycle Battery

PS-122000-GS

12V , 200Ah

General Features

- Designed floating charging service life: 15 years (25°C)
- Safety valve installation for explosion proof ,Sealed and maintenance free operation
- By using strong grids, high purity lead and patented Gel electrolyte
- Extremely low self-discharge characteristic
- Wide operating temperature range from -20°C~55°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion
- Maximum Discharge Current: 2000 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

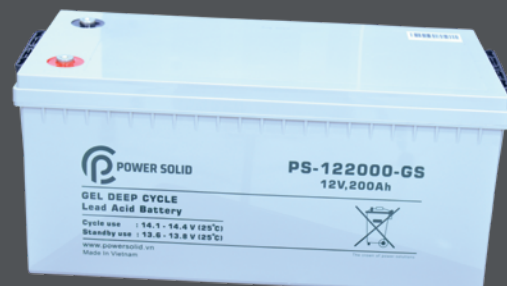
Constant-Voltage Charge

Rated Capacity	
20 hour rate (10.0A)	212.0AH
10 hour rate (20.0A)	201.0AH
5 hour rate (34.0A)	170.0AH
3 hour rate (50.0A)	152.0AH
1 hour rate (120.0A)	120.0AH
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 50.0A.
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 1.2A 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 50.0A 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	630	480	362	192	178	125	98.6	82.6	51.8	36.0	25.58	20.90	10.70
10.50	560	440	338	184	170	120	94.8	79.6	50.1	34.3	24.18	20.60	10.60
10.80	520	400	316	178	162	115	90.9	76.5	48.3	32.8	22.98	20.18	10.46
Constant Power Discharge Data Sheet (Watt at 25°C)													
10.20	6260	5300	3815	2396	1800	1564	1141	858	640	413	306	260	136
10.50	6020	4500	3424	2341	1760	1540	1123	830	619	400	302	252	132
10.80	5600	4200	3268	2290	1700	1470	1072	802	598	386	298	240	129



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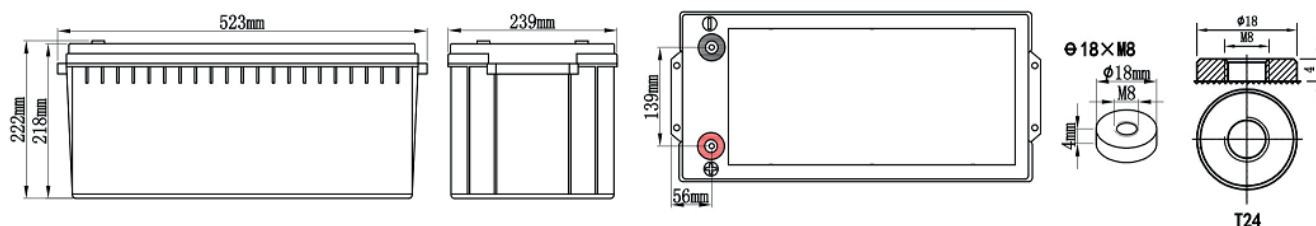
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Physical Specifications

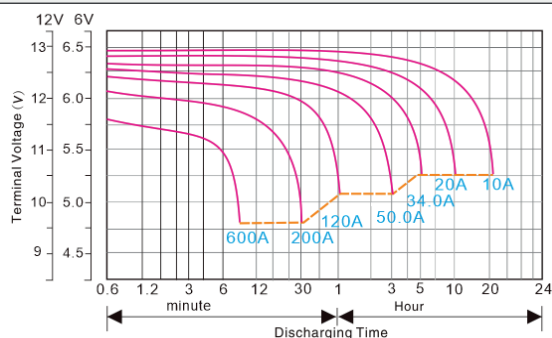
Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight $\pm 3\%$	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	200AH	523 \pm 3mm	239 \pm 2mm	215 \pm 3mm	222 \pm 3mm	Approx 59.8kg (131.56lbs)	$\approx 2.75\text{m}\Omega$	T24 (standard)

Dimensions(mm)

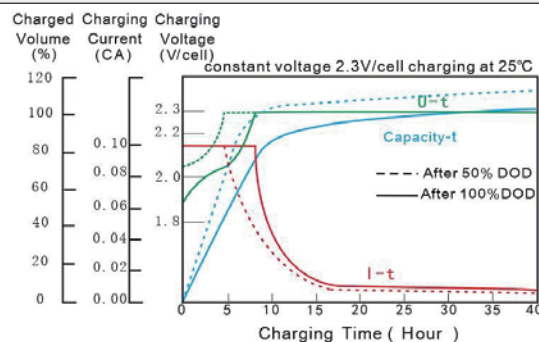


Performance Characteristics

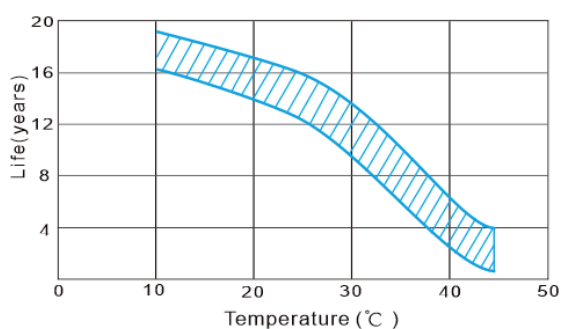
Discharge Characteristic (25°C/77°F)



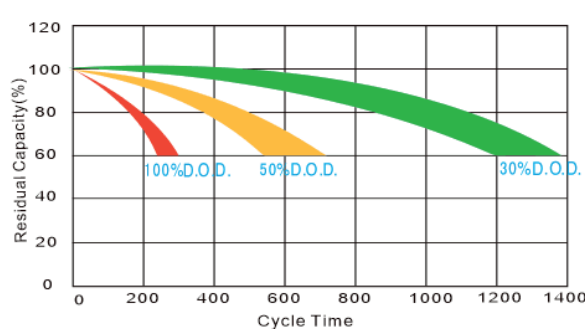
Charge Characteristics (25°C/77°F)



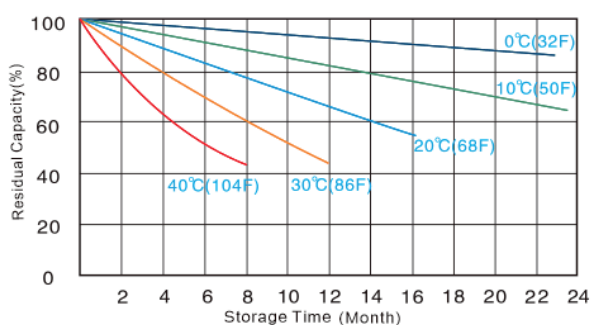
Temperature vs Float Life



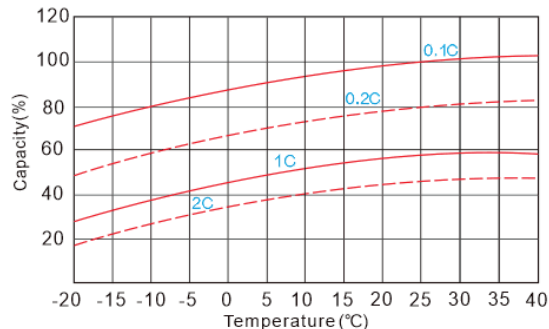
Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Capacity Curve At Different Temperature



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