



General Features

- Designed floating charging service life: 12 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 :200 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 (1.00A)	20.40AH	1. Limit initial current less than 5.0A.	
10 hour rate (2.00A)	18.60AH	2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).	
5 hour rate (3.4A)	16.80H	3. Hold at 14.1V to 14.4V until current drop to under 0.12A for at least 3 hours.	
27 minute rate (20A)	10.0AH	4. Temperature compensation coefficient of charging voltage is -30mV/°C.	
7 minute rate (60A)	7.00AH	Standby Service	
Capacity affected by Temperature		1. Hold battery across constant voltage source of 13.6to 13.8 volts with current limit 5.0A 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)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	51.0	39.5	22.9	16.5	13.2	10.0	7.84	5.62	3.60	2.38	1.95	1.06
9.9V	48.6	37.6	21.8	15.9	12.9	9.79	7.65	5.48	3.52	2.34	1.93	1.05
10.2V	46.3	35.8	20.8	15.4	12.6	9.55	7.46	5.35	3.43	2.29	1.91	1.04
10.5V	45.8	35.6	20.6	15.2	12.5	9.37	7.18	5.19	3.36	2.27	1.89	1.02
10.8V	45.4	35.2	20.4	14.9	12.4	9.19	6.89	5.01	3.30	2.25	1.86	1.00
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	639	512	292	208	154	113	87.3	63.6	41.9	28.6	23.2	12.5
9.9V	609	487	278	201	151	110	85.2	62.0	40.9	28.1	23.0	12.4
10.2V	580	464	265	194	147	107	83.1	60.5	39.9	27.5	22.7	12.2
10.5V	560	451	259	189	145	106	83.6	59.2	39.4	27.3	22.4	12.1
10.8V	540	437	252	184	142	104	82.4	58.1	39.0	27.0	22.0	11.9





POWER SOLID

The Crown of Power Solution

GEL Deep Cycle Battery

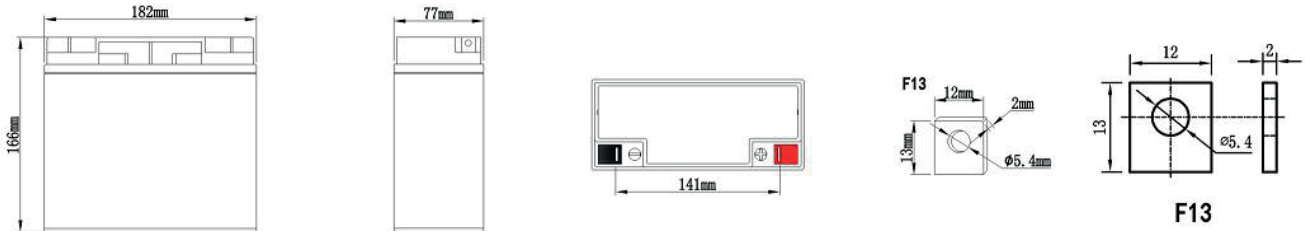
PS-12200-GS

12V, 20Ah

Physical Specifications

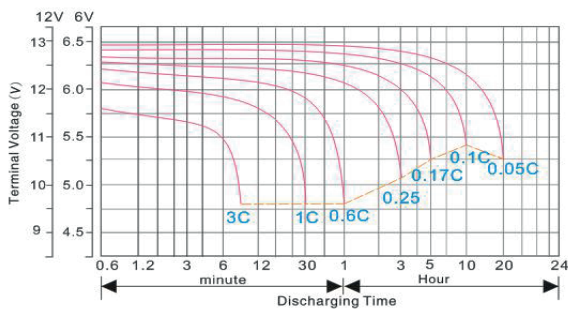
Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	20AH	182±2mm	77±2mm	166±2mm	166±2mm	Approx 5.60kg (12.32lbs)	≈12 mΩ	F13 (standard)

Dimensions(mm)

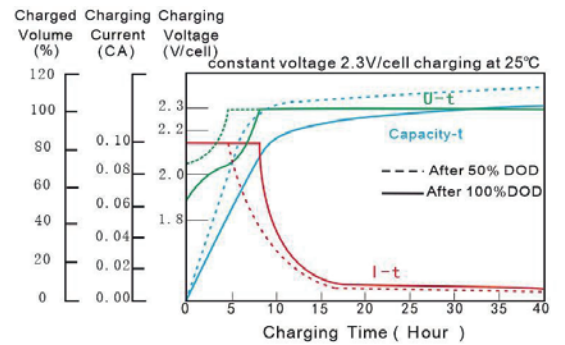


Performance Characteristics

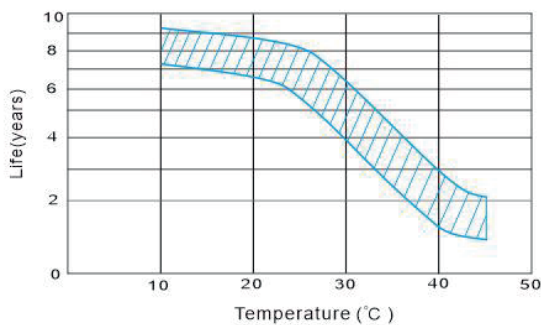
Discharge Characteristic (25°C/77°F)



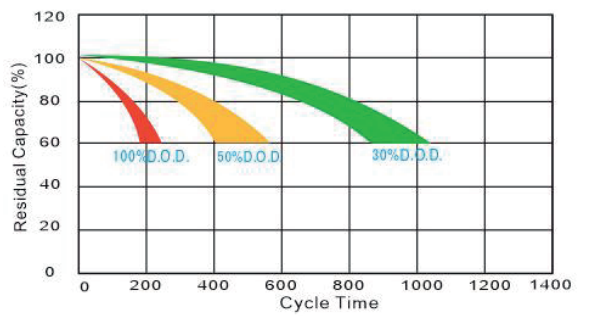
Charge Characteristics (25°C/77°F)



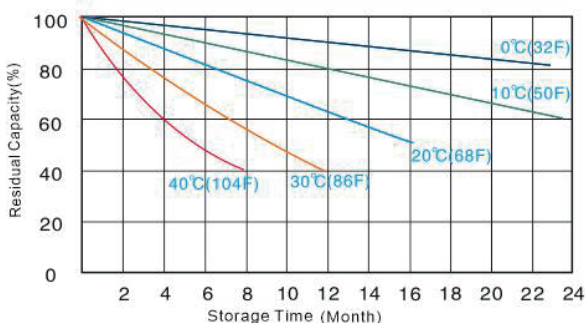
Temperature vs Float Life



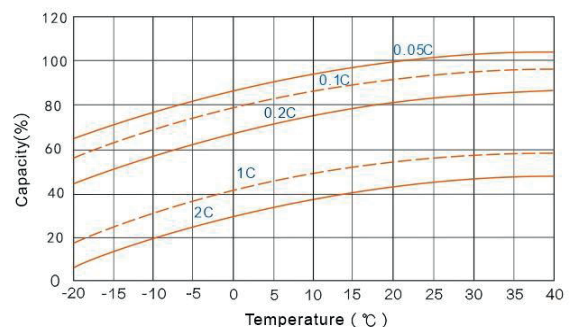
Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Capacity Curve At Different Temperature



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