



### 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 :550 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 (2.75A)	58.5AH
10 hour rate (5.5A)	55.0AH
5 hour rate (9.35A)	46.8AH
3 hour rate (13.75A)	41.3AH
1 hour rate (30.25A)	30.5AH
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 13.75A.	
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 under0.33A 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 13.75A 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	180	140	101.8	50.8	46.9	32.3	26.17	22.22	14.28	9.92	7.06	5.83	3.04	
10.50	175	132	97.6	49.8	45.5	31.8	25.57	21.66	13.84	9.73	6.98	5.78	2.99	
10.80	165	121	92.0	48.5	43.5	31.5	25.02	21.09	13.36	9.52	6.62	5.52	2.88	
Constant Power Discharge Data Sheet (Watt at 25°C)														
10.20	1722	1458	1058	659	495	430	314	236	176	114	84.2	71.5	37.46	
10.50	1656	1238	950	644	484	424	309	228	170	110	83.1	69.3	36.30	
10.80	1540	1155	907	630	468	404	295	221	164	106	82.0	66.0	35.48	

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GEL Deep Cycle Battery

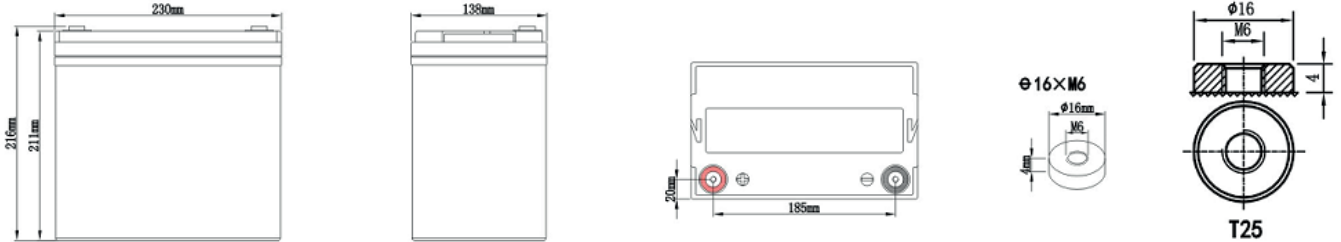
PS-12550-GS

12V ,55Ah

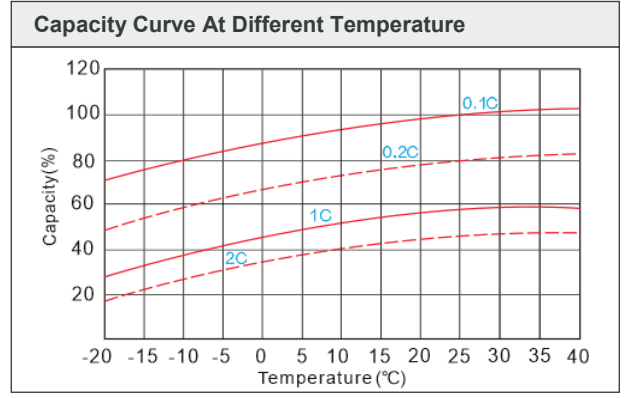
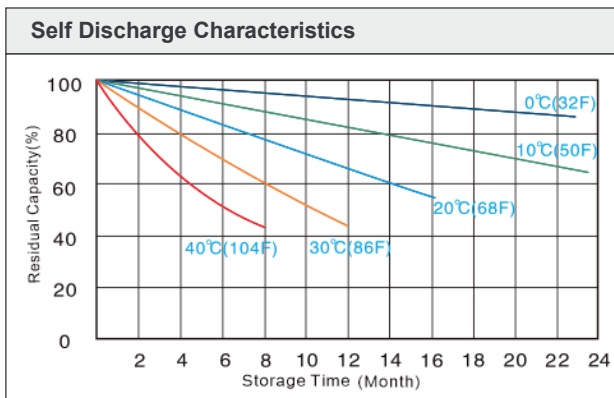
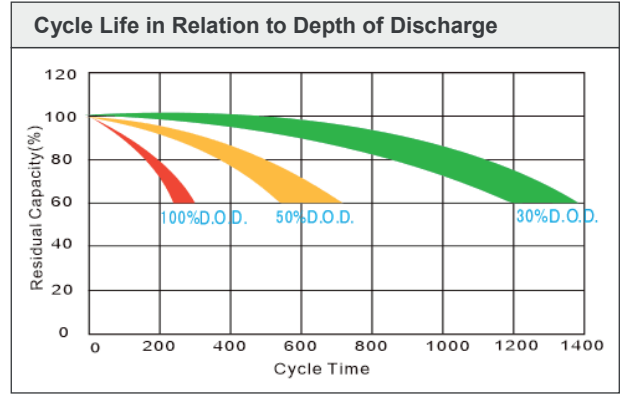
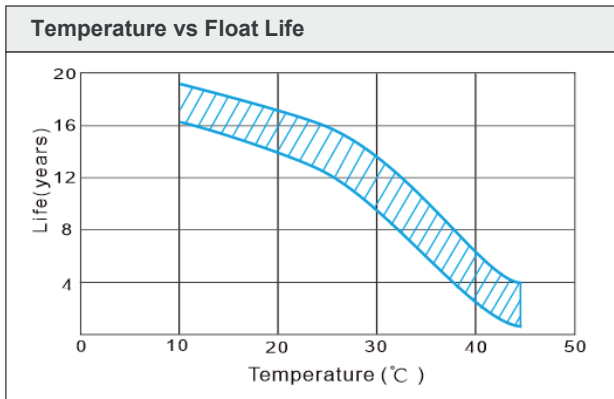
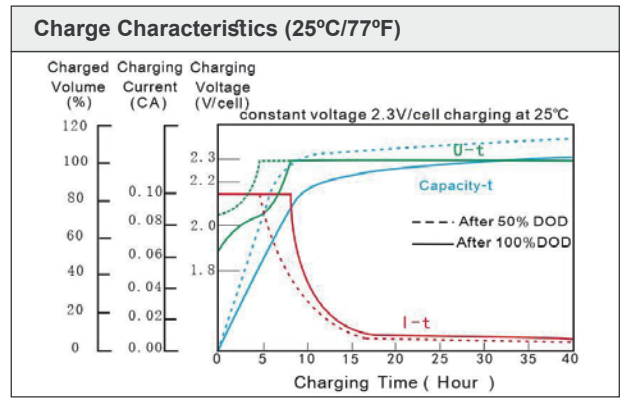
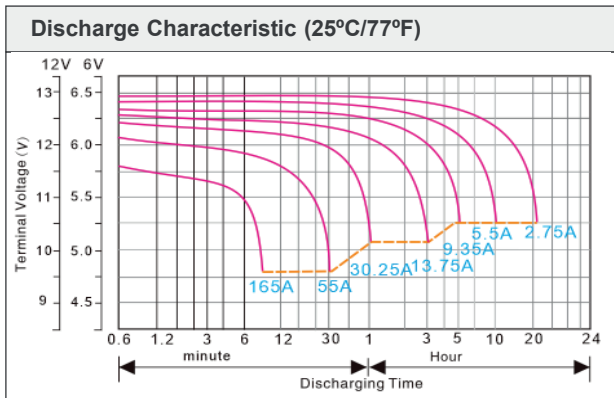
### Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	55AH	230±3mm	138±2mm	211±3mm	216±3mm	Approx 16.1kg (35.42lbs)	≈5.3mΩ	T25 (standard)

### Dimensions(mm)



### Performance Characteristics



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