



POWER SOLID

The Crown of Power Solution

GEL Deep Cycle Battery

PS-12750-GS

12V, 75Ah

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 :750 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 (3.75A)	79.5AH
10 hour rate (7.5A)	75.0AH
5 hour rate (12.75A)	63.7AH
3 hour rate (18.75A)	56.3AH
1 hour rate (45.0A)	45.0AH
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 18.75A.	
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 0.45A 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 18.75A 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	227	173	131	69.0	64.1	45.1	35.5	29.77	18.65	12.95	9.22	7.63	4.07
10.50	202	158	121	66.2	61.2	43.2	34.1	28.68	18.05	12.37	8.71	7.53	4.00
10.80	187	144	114	64.1	58.3	41.5	32.7	27.56	17.41	11.83	8.28	7.50	3.88
Constant Power Discharge Data Sheet (Watt at 25°C)													
10.20	2254	1908	1385	863	648	563	410	309	230	148	110	93.6	49.1
10.50	2167	1620	1244	842	634	554	404	299	223	144	109	90.7	47.5
10.80	2016	1512	1187	825	612	530	386	289	215	139	107	86.4	46.5



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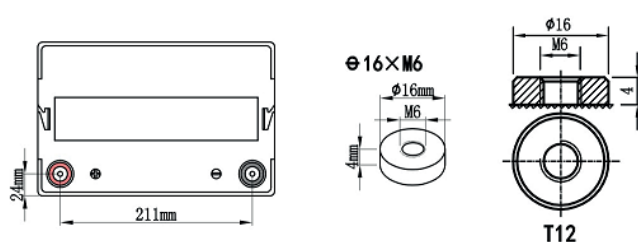
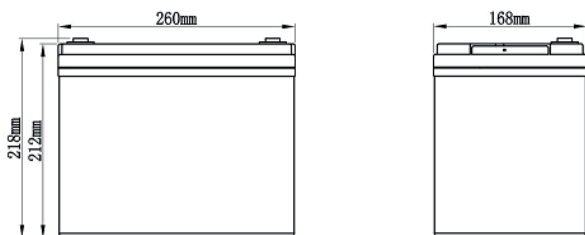
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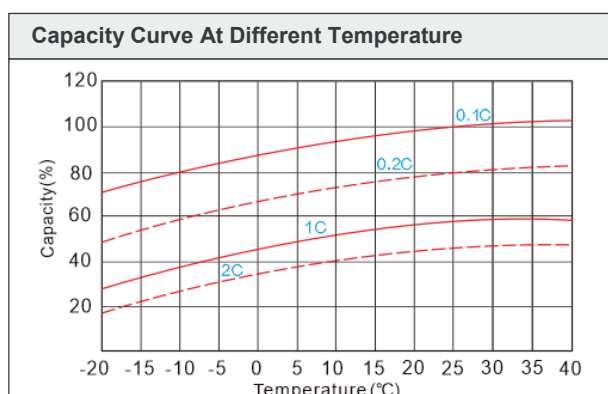
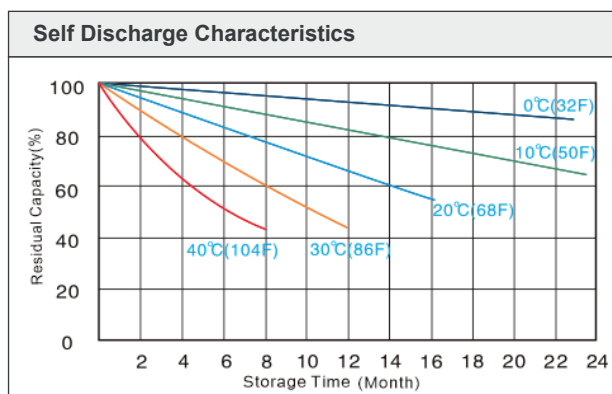
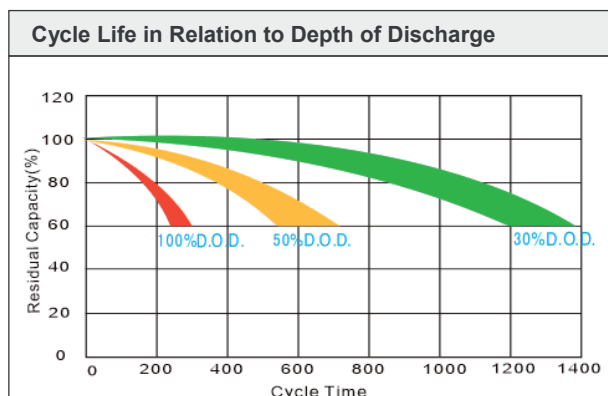
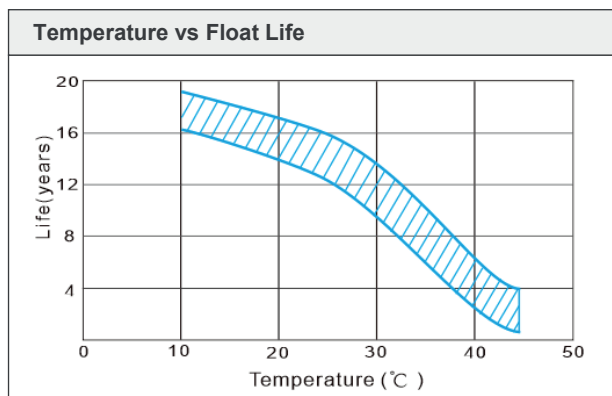
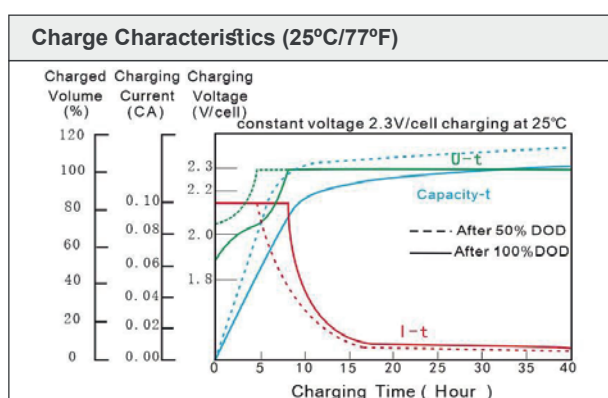
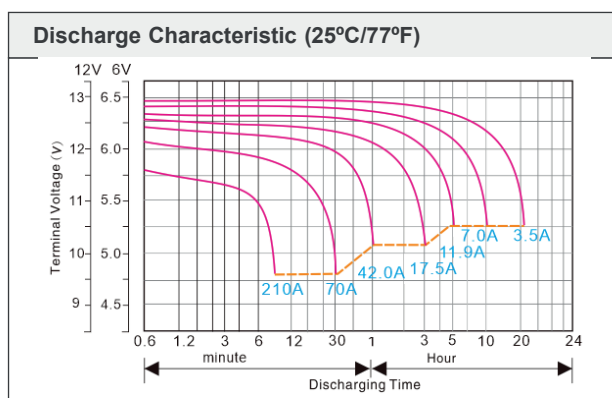
Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight $\pm 3\%$	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	75AH	260 \pm 3mm	168 \pm 2mm	212 \pm 3mm	218 \pm 3mm	Approx 23.5kg (51.7lbs)	$\approx 5.37\text{m}\Omega$	T12 (standard)

Dimensions(mm)



Performance Characteristics



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