

12IP250GD



- 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

- Pumps systems
- Solar lighting systems
- Telecom stations and power stations
- Solar/wind energy storage systems

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	250AH	520±3mm	268±3mm	220±3mm	224±3mm	Approx 70.0kg (154.3lbs)	≈3.3m Ω	T24 (standard)

Technical drawing of the T24 battery showing dimensions in millimeters (mm):

- Front View:** Length 520mm, Height 224mm (total) / 220mm (main body).
- Side View:** Width 268mm.
- Top View:** Shows the battery terminals (positive and negative) and the T24 model designation. The terminal area has a width of 129mm and a height of 56mm. The terminal itself is 18mm in diameter and 4mm in height.
- Terminal Details:** The terminal is marked with $\phi 18 \times M8$ and $\phi 18mm$. The terminal hole diameter is 18mm, and the terminal height is 4mm.

Rated Capacity	
20 hour rate (12.5A)	266.0AH
10 hour rate (25.0A)	250.0AH
5 hour rate (42.5A)	212.5AH
3 hour rate (62.5A)	189.0AH
1 hour rate (150.0A)	152.0AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

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 under1.44A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.

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.

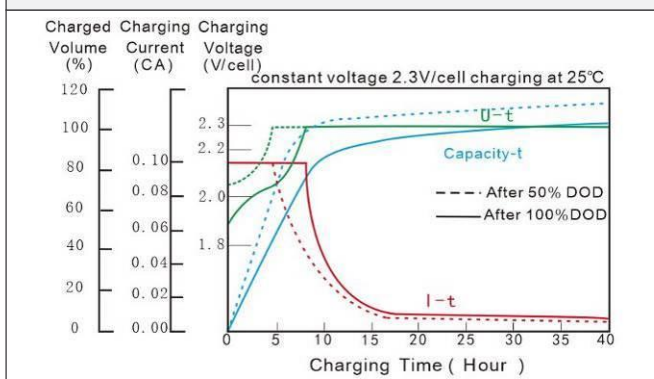
GEL Deep Cycle Battery | 12IP250GD

Battery Discharge Table

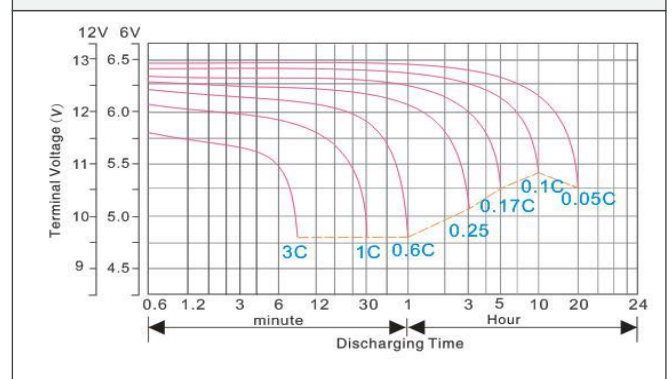
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	565	447	251	217	147	117	97	62	43.0	29.5	24.8	12.8
9.9V	540	427	240	210	144	114	96	61	42.1	29.1	24.6	12.7
10.2V	513	406	228	202	140	112	93	60	41.2	28.4	24.4	12.6
10.5V	489	385	217	196	136	108	91	59	40.8	27.8	24.2	12.5
10.8V	465	367	207	188	132	106	89	58	39.3	27.3	24.0	12.4
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	5303	4627	3071	2151	1790	1306	976	728	471	355	276	149
9.9V	5052	4396	2924	2080	1747	1273	953	712	458	348	273	148
10.2V	4810	4198	2785	2010	1704	1243	930	694	446	343	270	145
10.5V	4581	3997	2653	1942	1663	1213	908	677	437	336	267	144
10.8V	4363	3807	2526	1876	1622	1181	885	659	426	329	264	143

Performance Characteristics

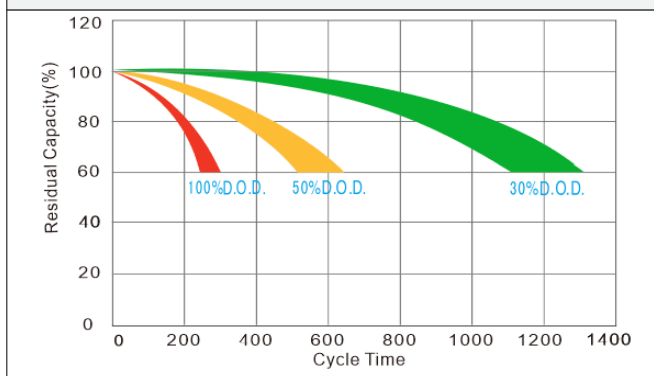
Charge Characteristics (25°C/77°F)



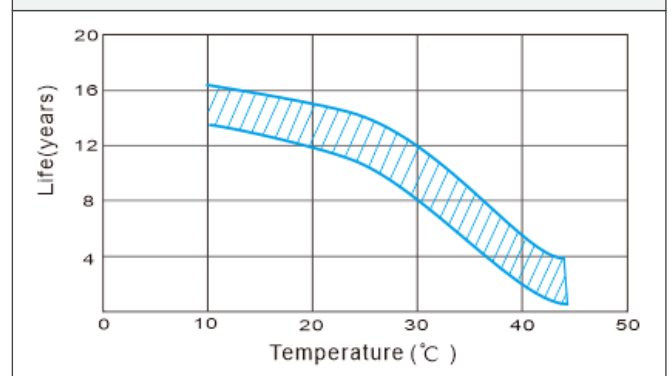
Discharge Characteristic (25°C/77°F)



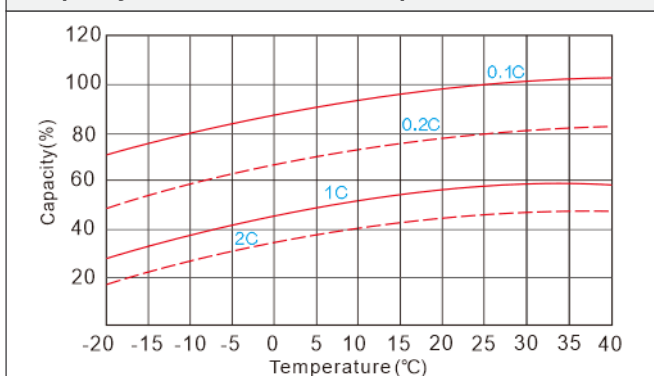
Cycle Life in Relation to Depth of Discharge



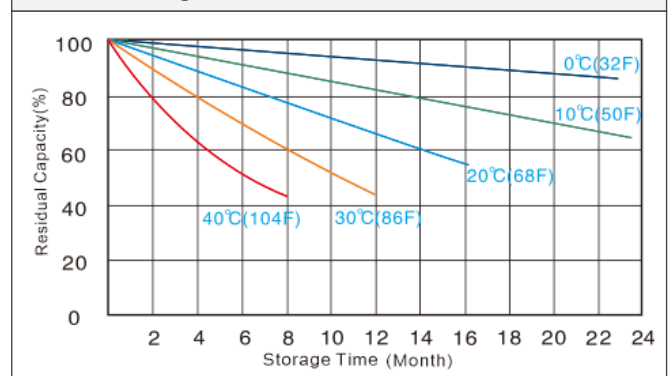
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



☆The datasheet subjects to change without prior notice, please contact with us if have any questions.