

GEL Deep Cycle Battery

12IP200GD



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

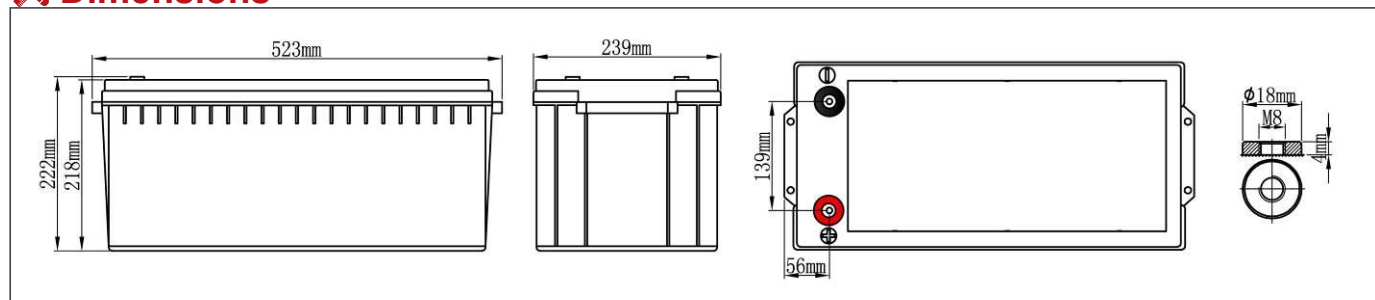
Application

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

Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	200AH	523±3mm	239±3mm	218±3mm	222±3mm	Approx 55.5kg (122.35 lbs)	≈5.5m Ω	T41 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (10A)	210.0AH
10 hour rate (20.0A)	200.0AH
5 hour rate (34.0A)	170.0AH
3 hour rate (50.0A)	150.0AH
1 hour rate (120.0A)	122.0AH
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 60.0A.	
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 under1.02A 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 60.0A 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.	

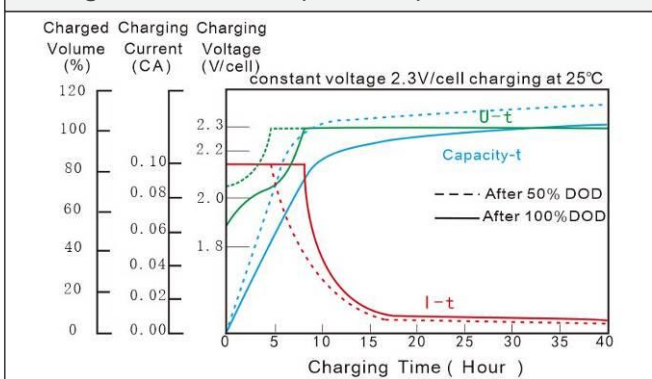
NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

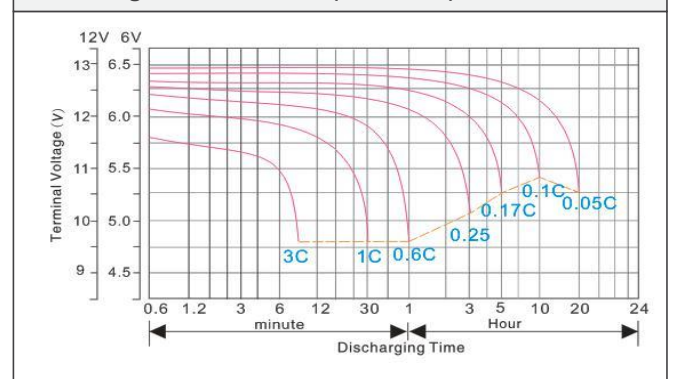
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	413	327	183	158	107	85	72	44.2	30.8	21.1	17.7	9.20
9.9V	395	311	175	153	106	83	70	43.5	30.1	20.8	17.5	9.11
10.2V	376	296	166	148	102	81	68	42.5	29.4	20.4	17.4	9.01
10.5V	357	282	158	143	100	80	67	41.8	28.9	19.9	17.2	8.93
10.8V	340	268	151	138	98	78	65	40.8	28.1	19.6	17.0	8.84
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	4614	3823	2367	1658	1379	1007	753	561	362	274	213	114.3
9.9V	4395	3642	2253	1602	1347	981	735	548	353	269	210	113.3
10.2V	4186	3468	2146	1549	1313	957	716	534	345	264	208	111.4
10.5V	3987	3303	2044	1496	1280	933	699	520	336	259	206	110.5
10.8V	3796	3145	1947	1445	1250	911	682	508	328	253	204	109.6

Performance Characteristics

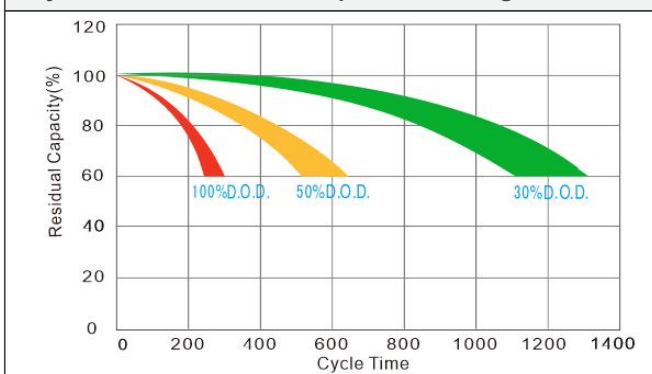
Charge Characteristics (25°C/77°F)



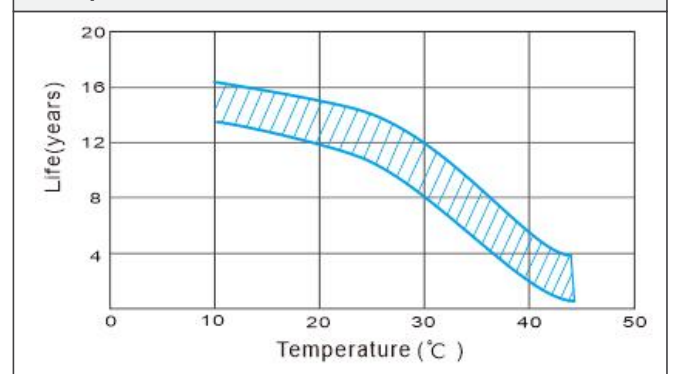
Discharge Characteristic (25°C/77°F)



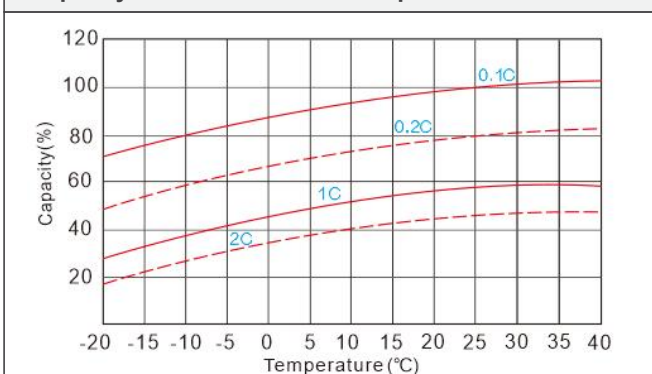
Cycle Life in Relation to Depth of Discharge



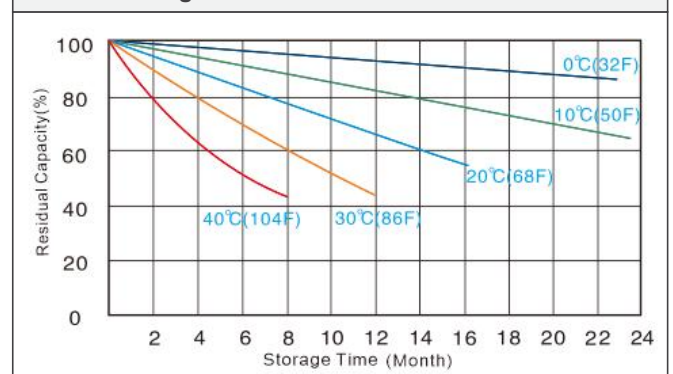
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



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