Original Infinite Power

GEL Deep Cycle Battery
INFINITE
12IP100GD[12V100Ah]

General Features

- Designed floating charging service life: 12 years (25ºC)
- 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 -20ºC~55ºC
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

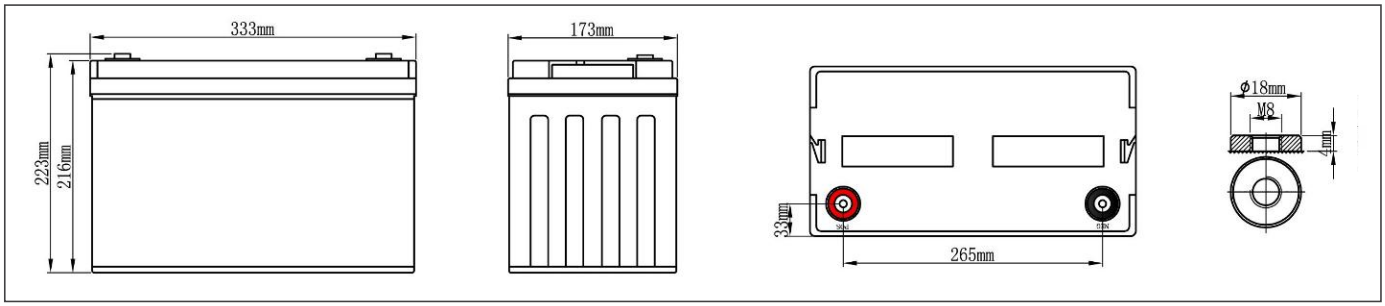
Application

- 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	100AH	333±3mm	173±2mm	216±3mm	223±3mm	Approx 28kg (61.6lbs)	≈5.7mΩ	T13 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (5.0A)	105.0AH
10 hour rate (10.0A)	100.0AH
5 hour rate (17.0A)	85.0AH
3 hour rate (25.0A)	75.0AH
1 hour rate (60.0A)	63.0AH
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

Cycle Application
1. Limit initial current less than 30.0A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25ºC(77ºF).
3. Hold at 14.1V to 14.4V until current drop to under0.60A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/ºC.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 30.0A 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/ºC.

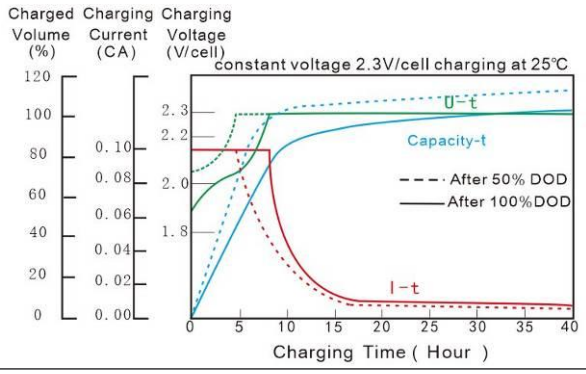
⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

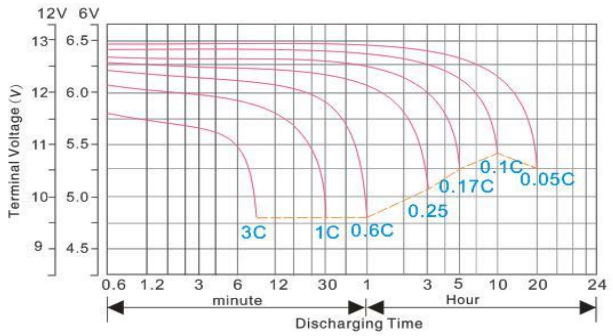
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25ºC) Unit: A												
9.6V	219	173	97	84	57	45.0	38.1	23.4	16.3	11.2	9.37	4.87
9.9V	209	165	93	81	56	44.1	37.1	23.0	15.9	11.0	9.27	4.82
10.2V	199	157	88	78	54	43.2	36.2	22.5	15.6	10.8	9.18	4.77
10.5V	189	149	84	76	53	42.3	35.4	22.1	15.3	10.5	9.09	4.73
10.8V	180	142	80	73	52	41.4	34.5	21.6	14.9	10.4	9.00	4.68
Constant Power Discharge Data Sheet (@25ºC) Unit: W												
9.6V	2442	2024	1253	878	730	533	399	297	192	145	112	60.4
9.9V	2327	1928	1193	847	713	519	389	290	187	142	111	59.9
10.2V	2216	1835	1136	820	695	507	379	283	183	140	110	59.2
10.5V	2111	1748	1082	792	678	494	370	275	178	137	109	58.6
10.8V	2010	1665	1031	765	662	482	361	269	174	134	108	58.1

Performance Characteristics

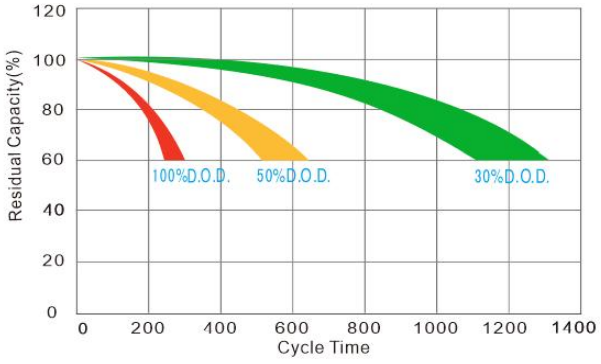
Charge Characteristics (25ºC/77ºF)



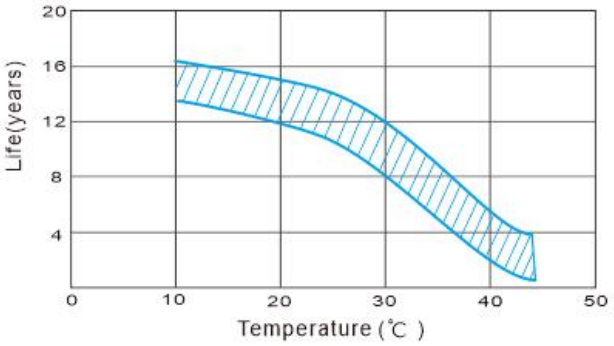
Discharge Characteristic (25ºC/77ºF)



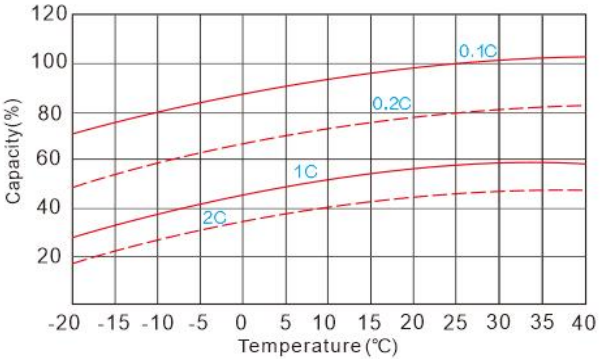
Cycle Life in Relation to Depth of Discharge



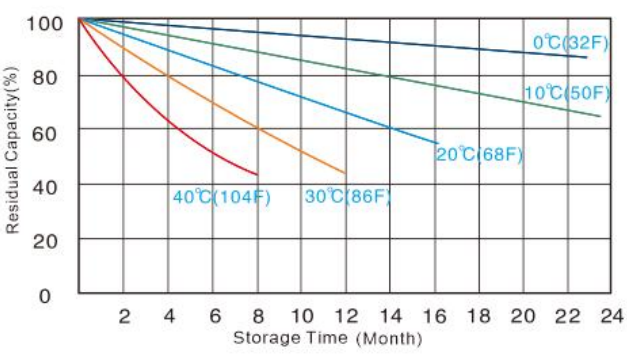
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



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