Original Infinite Power

GEL Deep Cycle Battery

12IP150GD

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

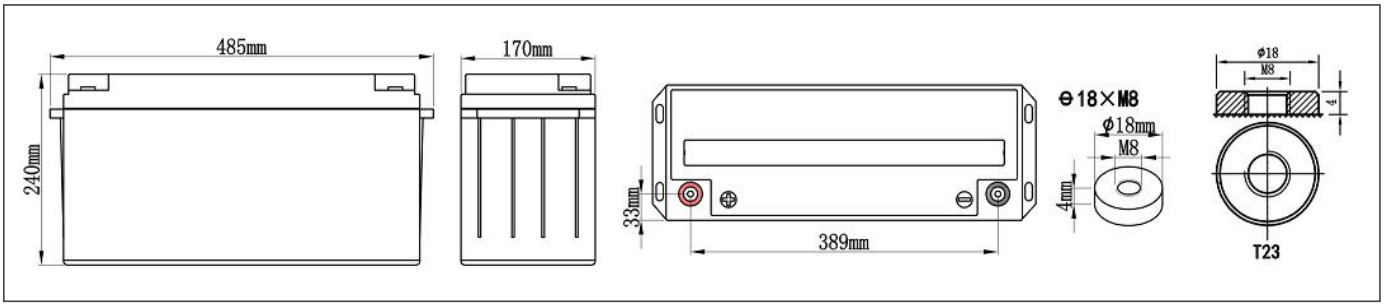
Application

- 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	150AH	485±3mm	170±2mm	240±3mm	240±3mm	Approx 41.4kg (91.3lbs)	≈3.7mΩ	T23 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (7.5A)	156.4AH
10 hour rate (15.0A)	150.0AH
5 hour rate (25.5A)	127.5AH
3 hour rate (37.5A)	112.5AH
1 hour rate (90.0A)	93.0AH
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

Cycle Application
1. Limit initial current less than 45.0A.
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 under0.90A 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 45.0A 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.

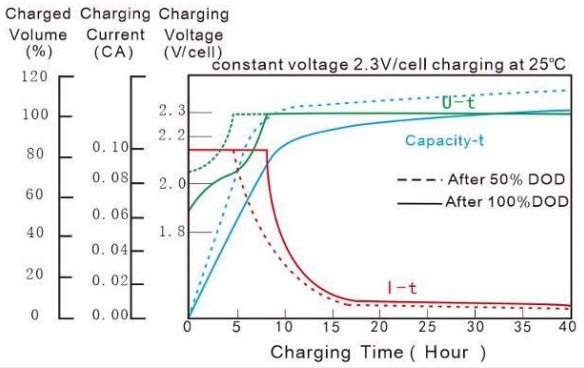
⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

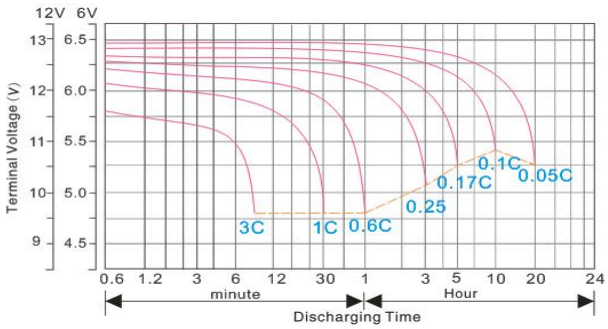
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25ºC) Unit: A												
9.6V	322	254	143	123	84	66	56	35.3	24.4	16.5	14.0	7.18
9.9V	307	242	136	119	82	64	54	34.4	23.8	16.1	13.8	7.14
10.2V	292	230	130	115	80	63	53	33.8	23.3	15.7	13.7	7.09
10.5V	278	221	124	111	77	61	51	32.8	23.0	15.4	13.6	7.04
10.8V	264	209	118	107	75	60	50	31.9	22.2	15.1	13.5	7.00
Constant Power Discharge Data Sheet (@25ºC) Unit: W												
9.6V	3307	2895	1769	1239	1033	752	562	421	270	206	158	86
9.9V	3148	2754	1685	1198	1007	733	550	410	263	201	157	85
10.2V	3000	2625	1606	1157	982	716	536	399	258	197	155	84
10.5V	2856	2501	1529	1118	958	699	524	390	250	193	153	83
10.8V	2720	2381	1455	1080	935	681	510	381	245	191	152	82

Performance Characteristics

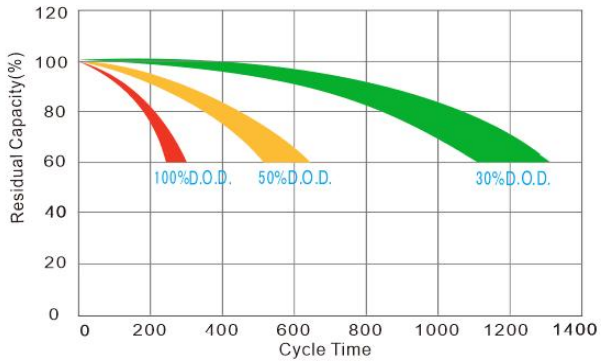
Charge Characteristics (25ºC/77ºF)



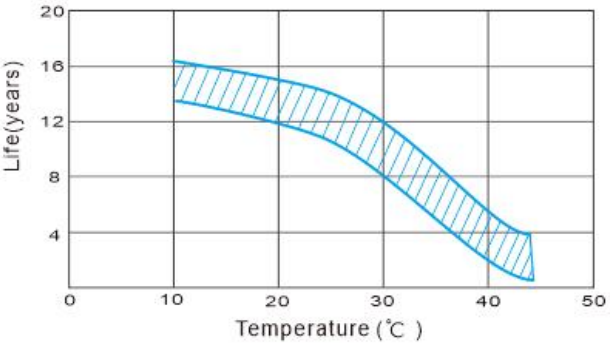
Discharge Characteristic (25ºC/77ºF)



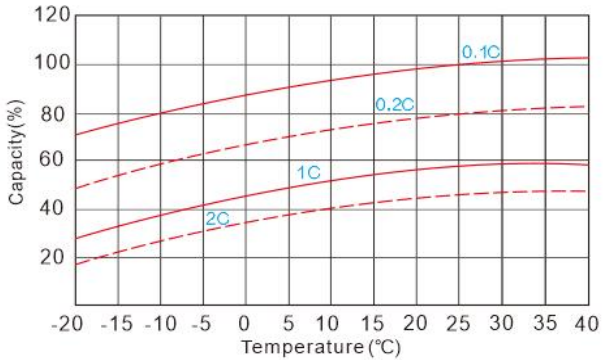
Cycle Life in Relation to Depth of Discharge



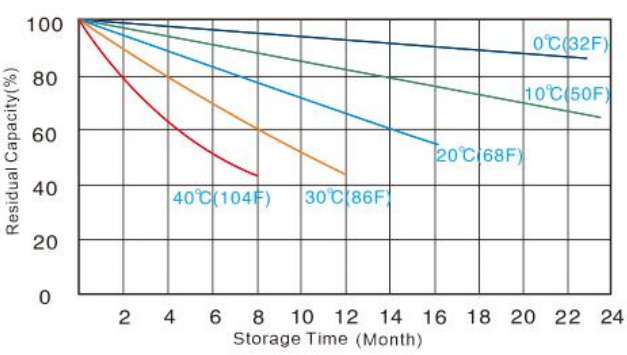
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



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