

CGT12-150PEXV 12V 150Ah(10hr)

Gel battery shows some distinctive advantages over flooded battery or AGM battery, such as super thermal stability, high deep discharge capability, good recovery from deep discharge, even if the battery is left discharged for three days, it will recover to 100% of capacity. With the above-mentioned advantages, the gel battery has long service life, specially suitable for motive power applications, such as golf trailer, sruubber, folklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.

Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	PE	Gelled acid

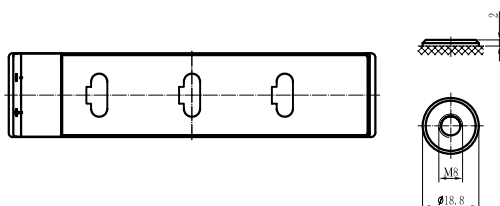
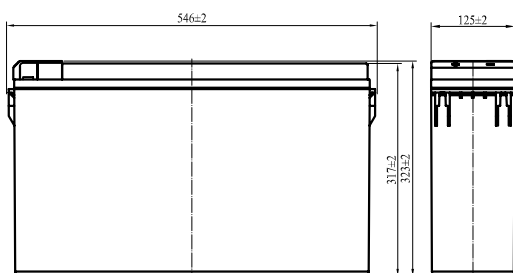
General Features

- Nanometer SiO_2 and H_2SO_4 gelled electrolyte technology for efficiency gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.
- Case and cover available in both standard and flame restardant ABS.

Dimensions and Weight

Length(mm / inch)	546 / 21.5
Width(mm / inch)	125 / 4.92
Height(mm / inch)	317 / 12.5
Total Height(mm / inch)	323 / 12.7
Approx. Weight(Kg / lbs)	52.0 / 113.5

* Weight deviation: $\pm 2\%$



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
10 hour rate (15.0A, 10.8V)	150Ah
5 hour rate (24.6A, 10.5V)	123Ah
1 hour rate (95.1A, 9.6V)	95.1Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	$\leq 5.0\text{mOhms}$
Self-Discharge	
2% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	1000A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use Charge Voltage:	2.35-2.45VPC
Maximum charging current	48A
Temperature compensation	-30mV/°C
Standby use	
No charge current limit is required	2.20-2.30VPC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

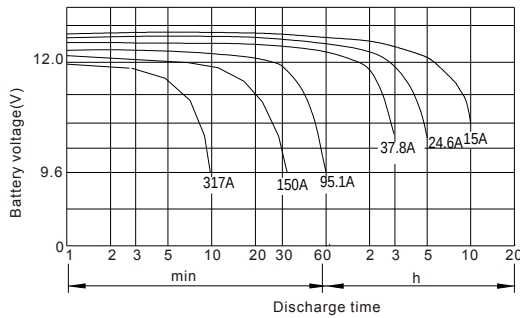
End point volts/cell	10min	15min	30min	1h	3h	5h	10h
1.60V	317	259	155	95.1	38.9	25.5	15.3
1.65V	303	251	152	93.2	38.5	25.3	15.3
1.70V	286	241	148	90.8	38.2	24.9	15.2
1.75V	269	230	144	89.1	37.8	24.6	15.1
1.80V	251	218	139	87.5	37.3	25.0	15.0

Discharge Constant Power (Watts per cell at 77°F25°C)

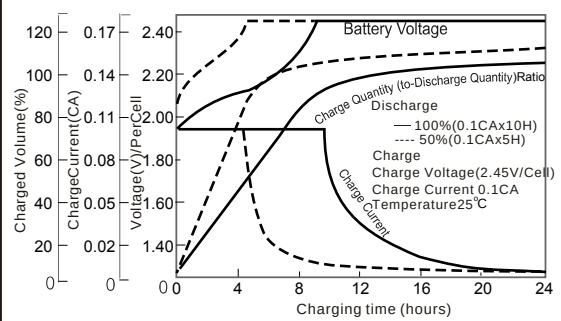
End point volts/cell	10min	15min	30min	1h	3h	5h	10h
1.60V	473	420	283	187	73.3	51.2	28.9
1.65V	451	406	279	183	72.6	50.8	28.7
1.70V	426	391	275	178	71.9	50.2	28.5
1.75V	409	375	270	172	71.1	49.6	28.3
1.80V	382	358	264	165	70.2	49.0	28.1

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.
All data shall be changed without notice, Vision reserves the right to explain and update the information contained hereinto.

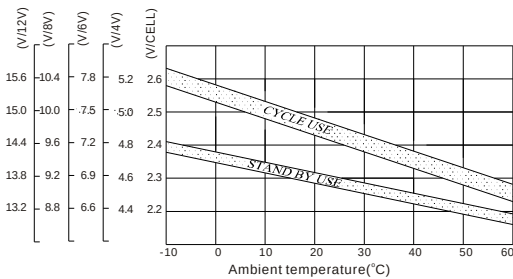
Discharge characteristic (25°C)



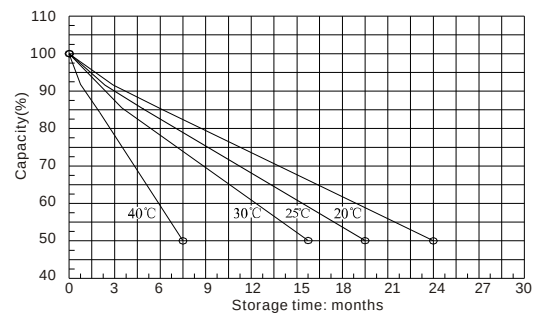
Charging characteristic for Cycle use



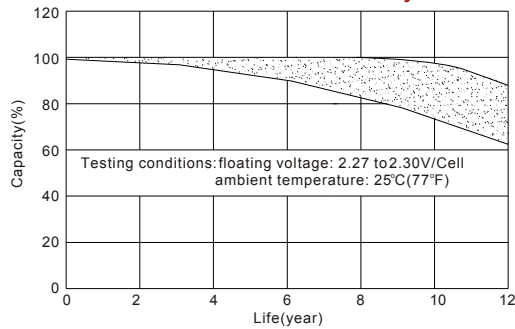
Relationship between charging voltage and temperature



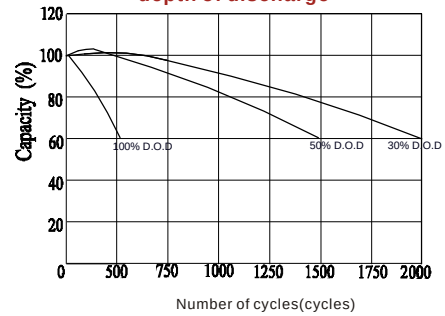
Self-discharge characteristic



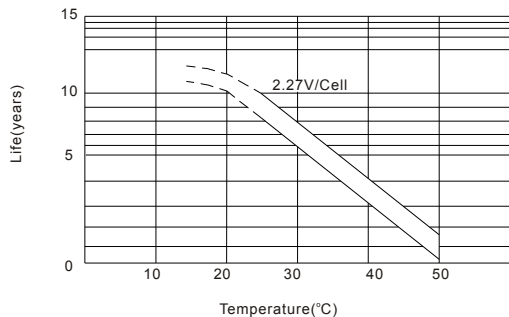
Life characteristics of standby use



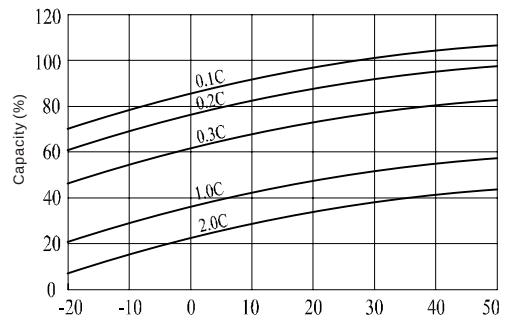
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



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