

CG12-135PEX 12V135Ah(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, srubber, folklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.

Battery Construction

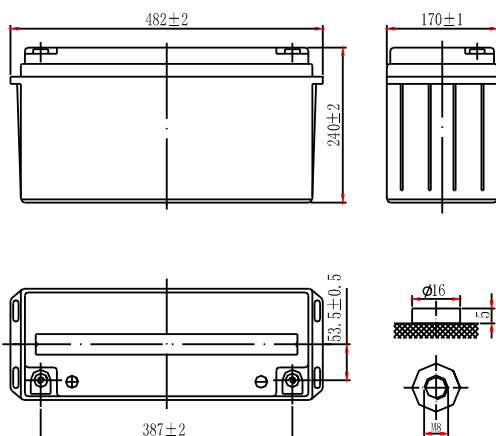
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	PE	Gelled acid

General Features

- Nanometer SiO₂ and H₂SO₄ 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.
- UL-recognized component.
- 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 retardant ABS.

Dimensions and Weight

Length(mm / inch)	482 / 19.0
Width(mm / inch)	170 / 6.69
Height(mm / inch)	240 / 9.45
Total Height(mm / inch)	240 / 9.45
Approx. Weight(Kg / lbs)	46 / 101.4



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
10 hour rate (13.5A, 10.8V)	135Ah
5 hour rate (23.6A, 10.5V)	118 Ah
1 hour rate (86.5A, 9.6V)	86.5Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	6.0mOhms
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)	750A(5s)
Short Circuit Current	2600A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	40.5A
Temperature compensation	-20mV/°C
Standby use	2.20-2.30VPC
No charge current limit is required	
Temperature compensation	-30mV/°C

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

End point volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	314	248	147	86.5	38.2	25.6	13.7	7.14
1.65V	292	237	145	84.3	37.4	25.1	13.6	7.04
1.70V	280	231	142	82.1	36.8	24.3	13.6	6.97
1.75V	257	214	139	80.2	36.1	23.6	13.5	6.89
1.80V	235	197	134	78.0	35.2	23.0	13.5	6.75

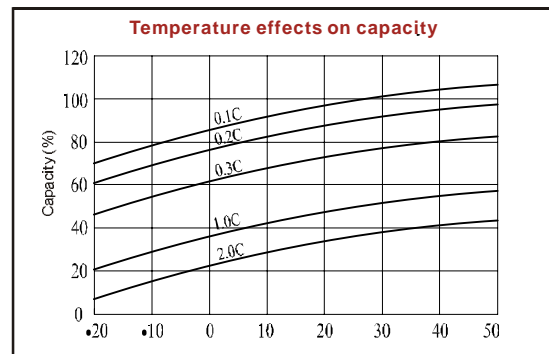
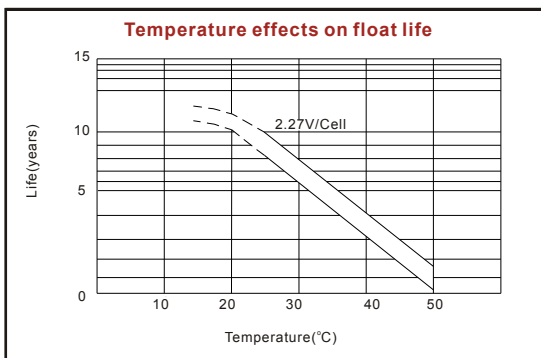
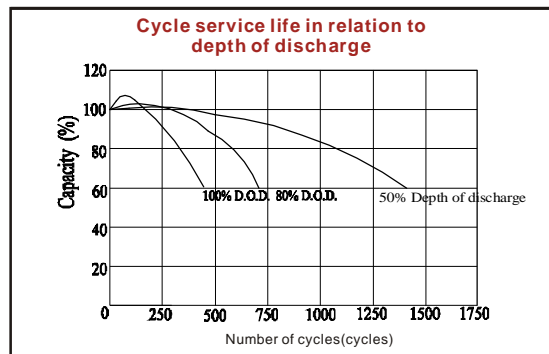
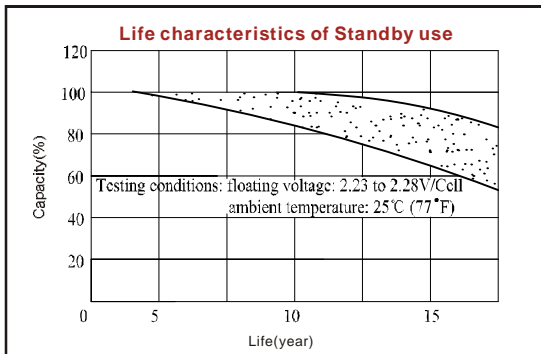
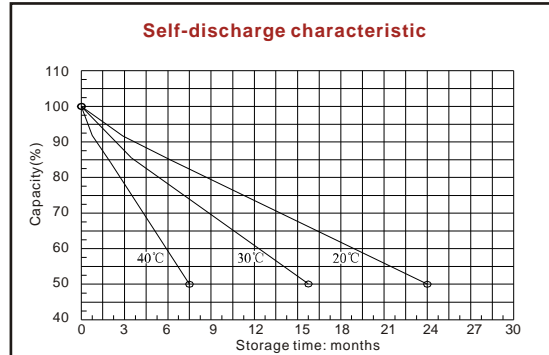
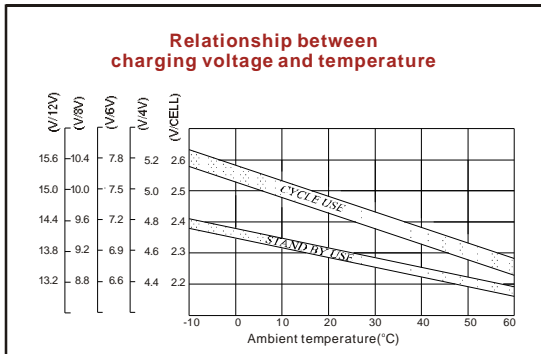
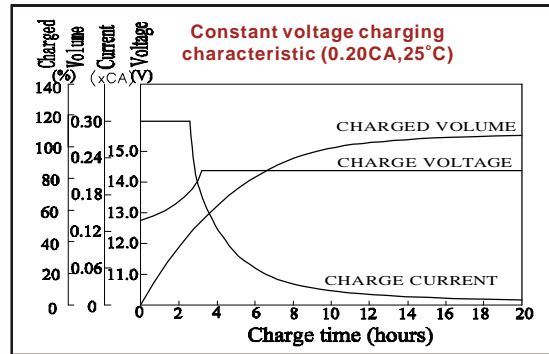
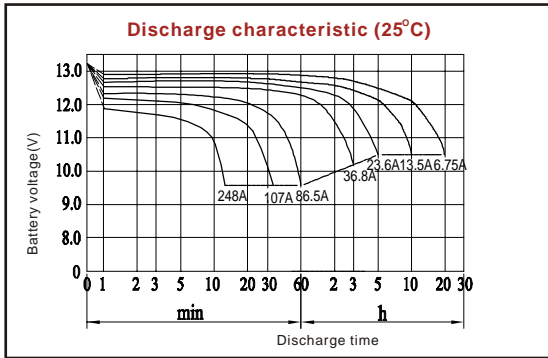
Discharge Constant Power (Watts at 77°F25°C)

End point volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	566	474	287	163	71.4	47.8	26.9	14.2
1.65V	529	433	261	158	70.4	47.3	26.2	14.0
1.70V	512	427	258	154	69.6	45.4	25.7	13.9
1.75V	483	414	254	152	68.0	44.5	25.2	13.5
1.80V	448	391	247	150	68.0	43.9	24.6	13.1

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.



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ISO9001:2008

MH25860

G4M19906-9202-E-16

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