CG12-150ZXA GEL 12V 150AH(10 hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.



Battery Construction

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

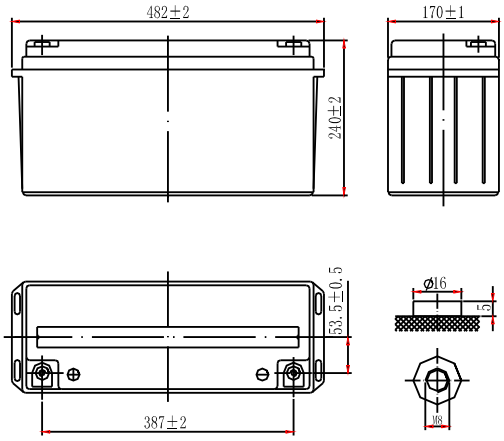
General Features

- Gel technology for efficient gas recombination of up to 99% and freedom from gel 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.

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)	44.5 / 98.1

* Weight deviation: ± 3%



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77ºF(25ºC)	
10 hour rate (15.0A, 10.8V)	150Ah
5 hour rate (26.9A, 10.5V)	134.5Ah
3 hour rate (43.0A, 10.5V)	129Ah
1 hour rate (100A, 9.6V)	100Ah
Internal Resistance	
Fully Charged battery 77ºF(25ºC)	≤4.5mOhms
Self-Discharge	
3% of capacity declined per month at 20ºC(average)	
Operating Temperature Range	
Discharge	-20~60ºC
Charge	-10~60ºC
Storage	-20~60ºC
Max. Discharge Current 77ºF(25ºC)	1000A(5s)
Short Circuit Current	2700A
Charge Methods: Constant Voltage Charge 77ºF(25ºC)	
Cycle use	2.40-2.45VPC
Maximum charging current	45A
Temperature compensation	-30mV/ºC
Standby use	2.20-2.30VPC
Temperature compensation	-20mV/ºC

Discharge Constant Current (Amperes at 77ºF25ºC)

End Point Volts/Cell		10min	15min	30min	45min	1h	3h	5h	10h
1.60V		346	280	165	121	100	44.1	28.7	15.5
1.65V		314	259	158	118	97.5	43.8	28.1	15.4
1.70V		301	251	156	116	94.9	43.4	27.5	15.2
1.75V		277	233	152	112	92.0	43.0	26.9	15.1
1.80V		254	216	146	108	89.2	41.0	26.4	15.0

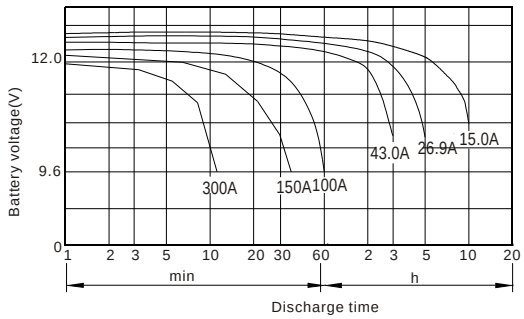
Discharge Constant Power (Watts at 77ºF25ºC)

End Point Volts/Cell		10min	15min	30min	45min	1h	2h	3h	5h
1.60V		613	526	325	238	189	110	83.7	55.1
1.65V		590	489	297	230	183	108	83.1	53.8
1.70V		544	455	293	225	178	107	82.5	52.9
1.75V		512	431	287	220	174	105	81.3	51.8
1.80V		479	413	282	217	172	103	80.0	50.7

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

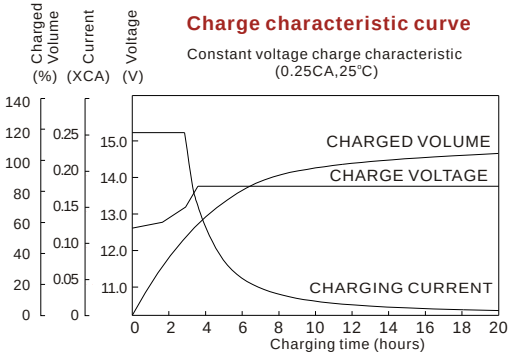
All data shall be changed without notice,Vision reserves the right to explain and update the information contained hereinto.

Discharge characteristic (25°C)

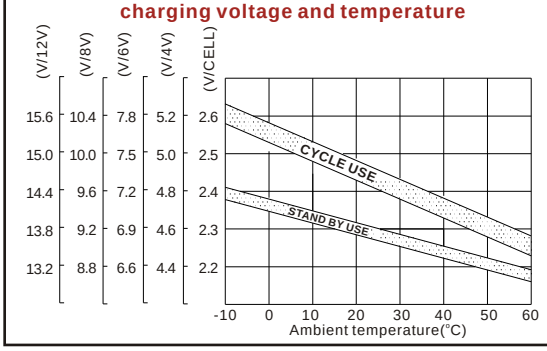


Charge characteristic curve

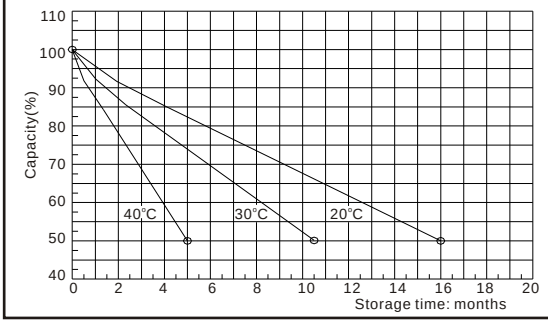
Constant voltage charge characteristic (0.25CA,25°C)



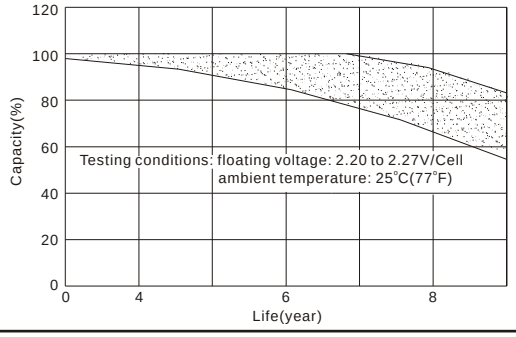
Relationship between charging voltage and temperature



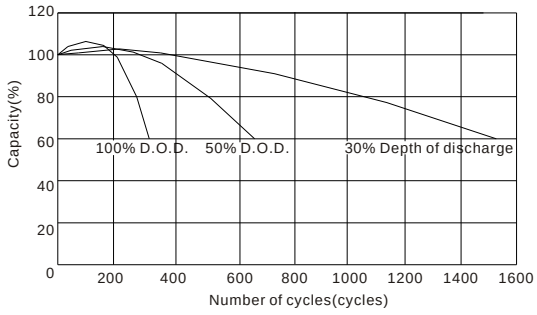
Self-discharge characteristic



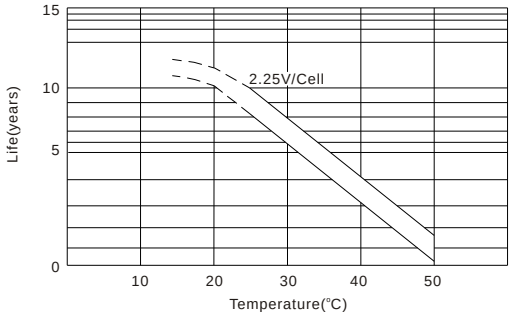
Life characteristics of standby use



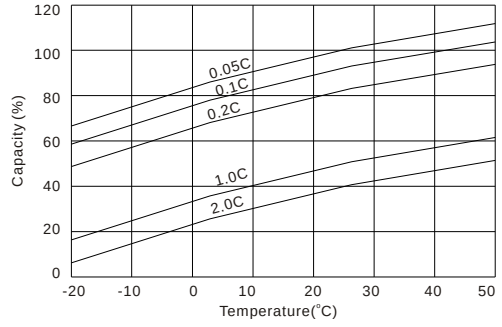
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



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