CG12-230ZXA 12V 230Ah(10hr)

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

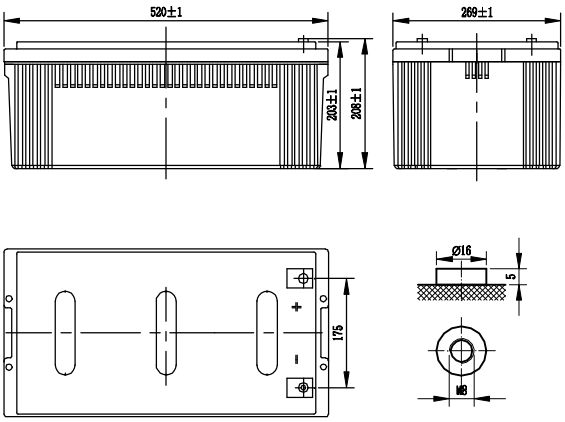
General Features

- Absorbent Glass Mat (AGM) technology for efficient 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.

Dimensions and Weight

Length(mm / inch)	520 / 20.5
Width(mm / inch)	269 / 10.6
Height(mm / inch)	203 / 8.0
Total Height(mm / inch)	208 / 8.2
Approx. Weight(Kg / lbs)	72.5 / 159.8

* Weight deviation: ± 3%



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77ºF(25ºC)	
10 hour rate (23.0A, 10.8V)	230Ah
5 hour rate (40.3A, 10.5V)	201.5Ah
3 hour rate (61.0A, 10.5V)	183Ah
1 hour rate (150A, 9.6V)	150Ah
Internal Resistance	
Fully Charged battery 77ºF(25ºC)	≤ 3.5mOhms
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)	1100A(5s)
Short Circuit Current	4300A
Charge Methods: Constant Voltage Charge 77ºF(25ºC)	
Cycle use	2.40-2.45VPC
Maximum charging current	69A
Temperature compensation	-30mV/ºC
Standby use	2.20-2.30VPC
Temperature compensation	-20mV/ºC

Discharge Constant Current (Amperes at 77ºF25ºC)

End Point Volts/Cell		15min	30min	45min	1h	3h	5h	10h
1.60V		395	232	180	150	66.5	41.0	23.6
1.65V		384	231	176	147	63.2	40.8	23.5
1.70V		373	230	174	145	62.8	40.6	23.4
1.75V		362	226	172	144	61.0	40.3	23.2
1.80V		350	223	170	142	59.0	40.0	23.0

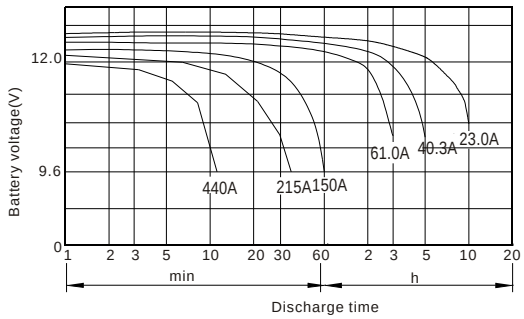
Discharge Constant Power (Watts at 77ºF25ºC)

End Point Volts/Cell		15min	30min	45min	1h	2h	3h	5h
1.60V		640	439	341	278	165	125	83.9
1.65V		630	436	339	268	161	122	81.4
1.70V		624	432	327	264	158	121	80.3
1.75V		610	429	325	256	153	117	78.5
1.80V		600	425	322	245	149	114	76.5

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

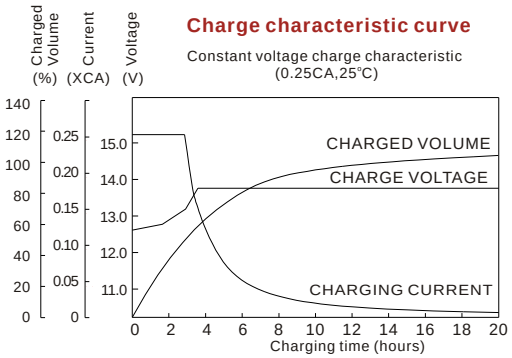
All data shall be changed without notice,Vision reserves the right to explain and update the information contained hereinto.

Discharge characteristic (25°C)

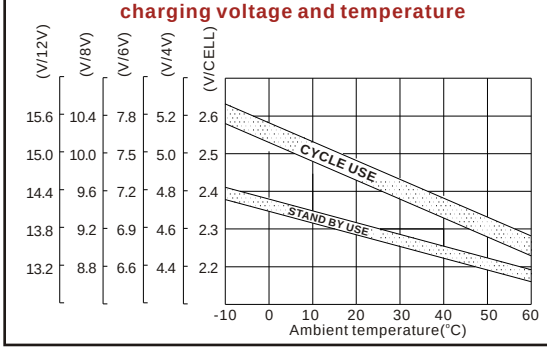


Charge characteristic curve

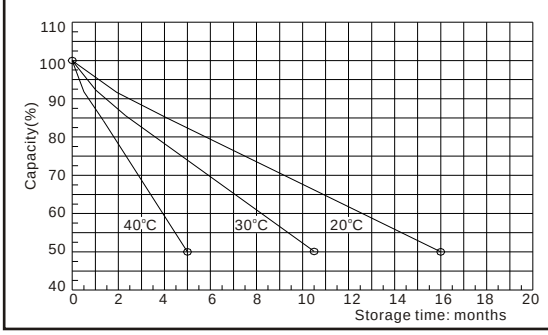
Constant voltage charge characteristic (0.25CA,25°C)



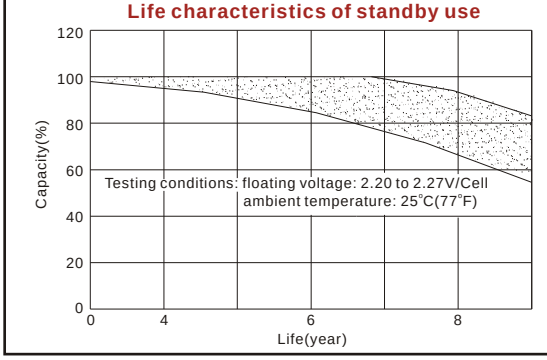
Relationship between charging voltage and temperature



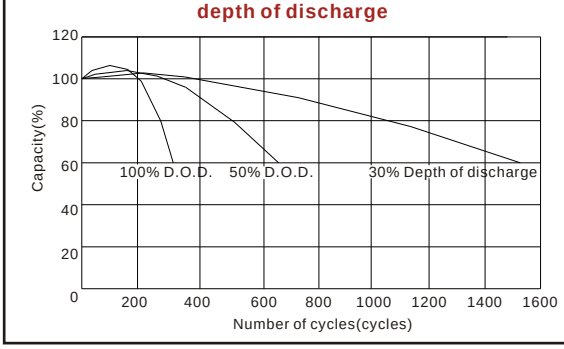
Self-discharge characteristic



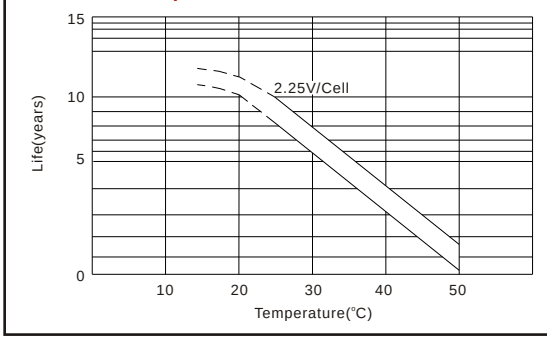
Life characteristics of standby use



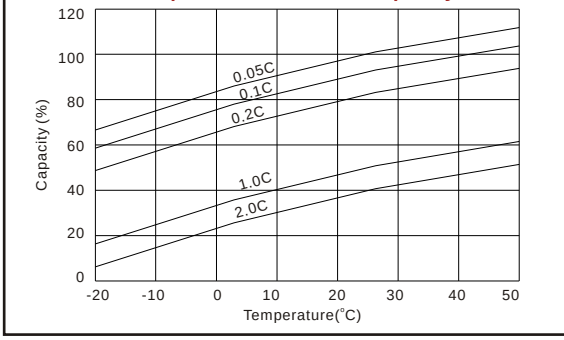
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



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