CLS600 *2V600Ah*

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	Sulfuric acid

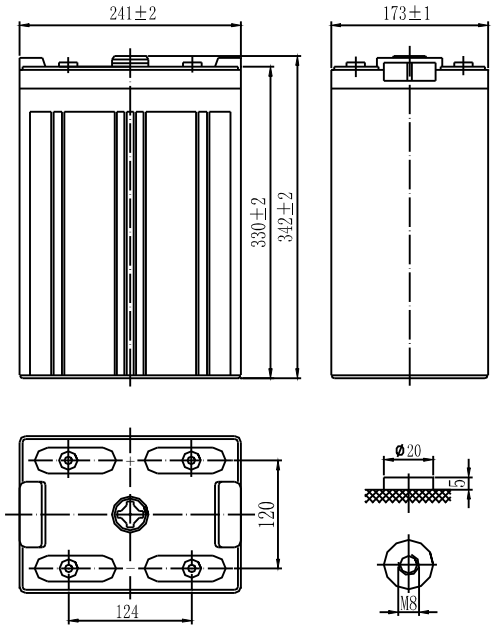
General Features

- 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,Pure lead grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Dimensions and Weight

Length(mm / inch)	241 / 9.49
Width(mm / inch)	173 / 6.81
Height(mm / inch)	330 / 13.00
Total Height(mm / inch)	365 / 14.37
Approx. Weight(Kg / lbs)	32.5 / 71.6

* Weight deviation: ± 3%



Total height with removeable cover: 365

Performance Characteristics

Nominal Voltage	2V
Number of cell	1
Design Life	15 years
Nominal Capacity 77ºF(25ºC)	
10 hour rate (60A, 1.8V)	600Ah
5 hour rate (105.8A, 1.75V)	529Ah
1 hour rate (439A, 1.6V)	392Ah
Internal Resistance	
Fully Charged battery 77ºF(25ºC)	≤ 0.6mOhms
Self-Discharge	
2% 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)	3000A(5s)
Charge Methods: Constant Voltage Charge 77ºF(25ºC)	
Cycle use	2.40-2.45VPC
Maximum charging current	120A
Temperature compensation	-5.0mV/ºC
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/ºC

Discharge Constant Current (Amperes at 77ºF25ºC)

End Voltage/ volt per cell			30min	45min	1h	3h	5h	10h
1.60			636	483	392	174	113.6	64.7
1.67			593	454	371	166	110.1	63.2
1.75			548	422	348	156	105.8	61.4
1.80			518	399	331	149	101.7	60.0

Discharge Constant Power (Watts at 77ºF25ºC)

End Voltage/ volt per cell			30min	45min	1h	3h	5h	10h
1.60			1250	981	795	337	222.4	123.5
1.67			1155	913	745	322	216.5	120.7
1.75			1058	841	691	307	209.1	117.4
1.80			992	792	654	295	198.5	115.2

(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.

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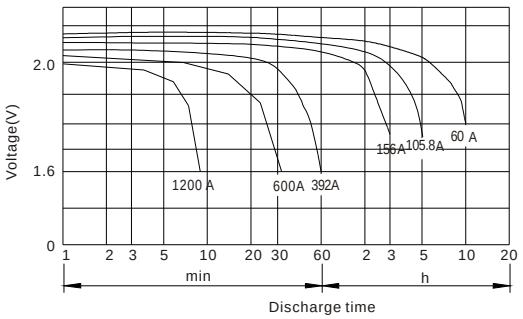
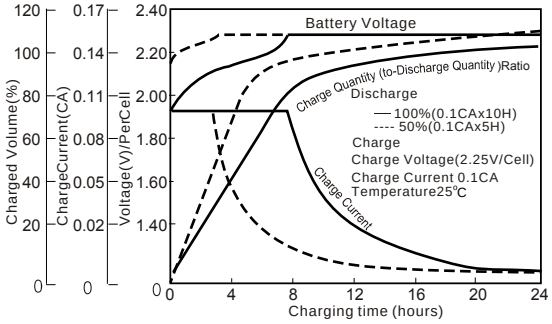
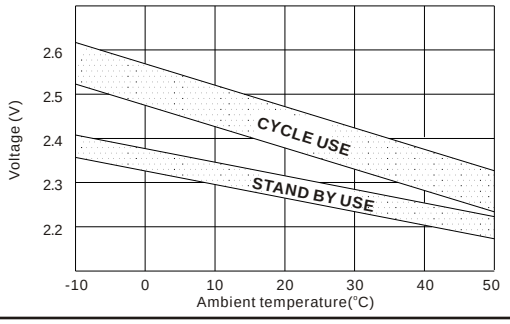
Discharge characteristic (25°C)



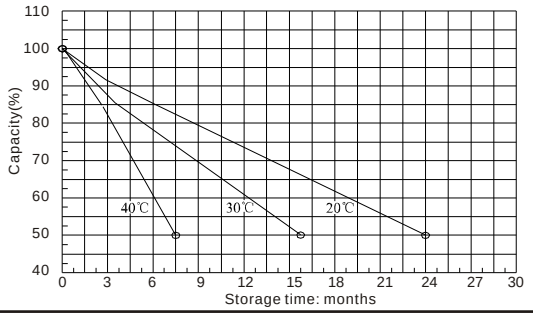
Charging characteristic for standby use



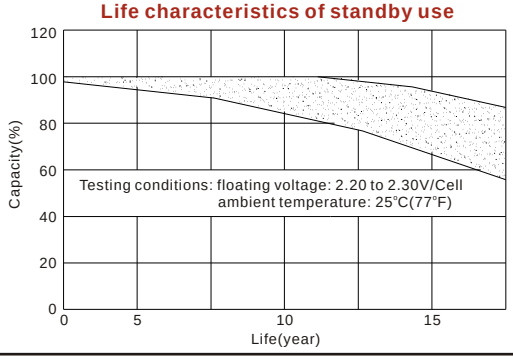
Relationship between charging voltage and temperature



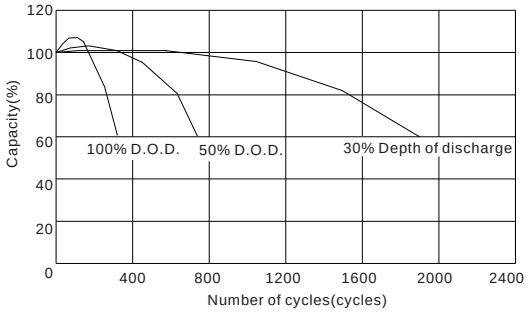
Self-discharge characteristic



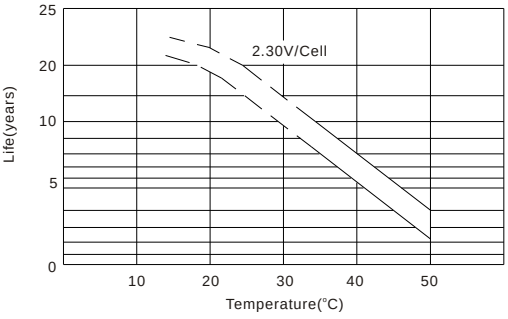
Life characteristics of standby use



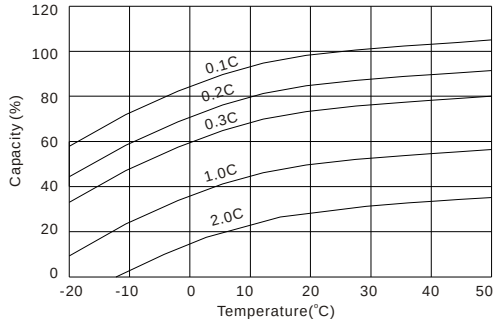
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



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