

CLS800 2V800Ah

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

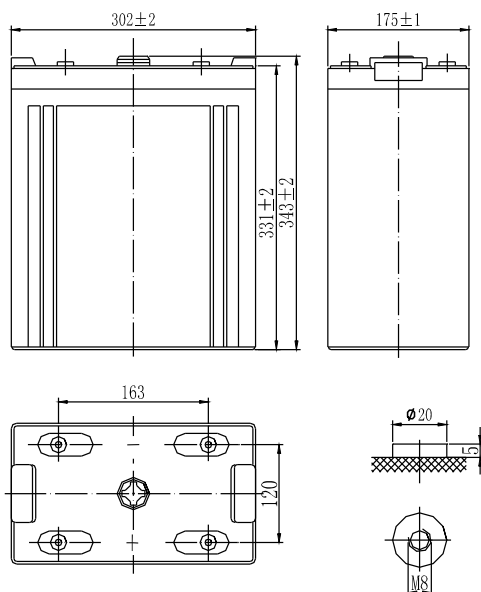
General Features

- 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)	302 / 11.89
Width(mm / inch)	175 / 6.89
Height(mm / inch)	331 / 13.03
Total Height(mm / inch)	367 / 14.5
Approx. Weight(Kg / lbs)	43 / 94.80

* Weight deviation: $\pm 3\%$



Total height with removable cover: 367

Performance Characteristics

Nominal Voltage	2V
Number of cell	1
Design Life	15 years
Nominal Capacity 77°F(25°C)	
10 hour rate (80A, 1.8V)	800Ah
5 hour rate (134A, 1.75V)	670Ah
1 hour rate (494A, 1.6V)	494Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	$\leq 0.70\text{mOhms}$
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)	3000A(5s)
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	160A
Temperature compensation	-5.0mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-3.3mV/°C

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

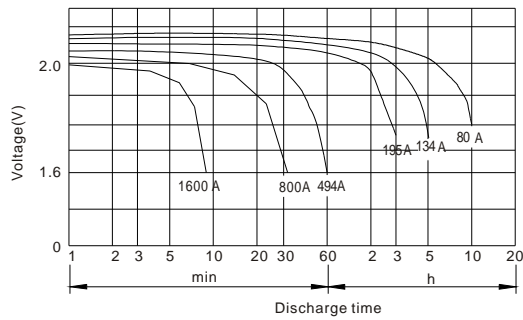
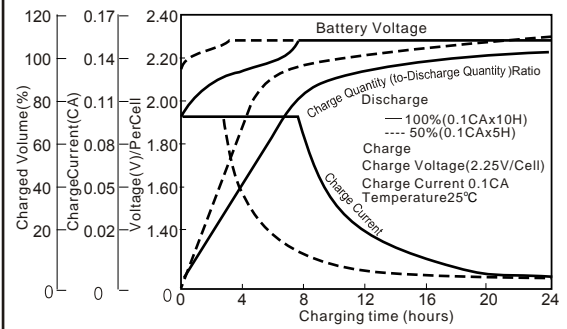
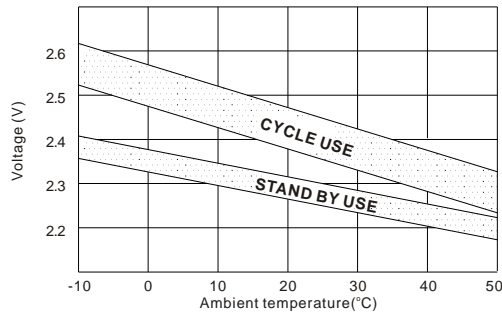
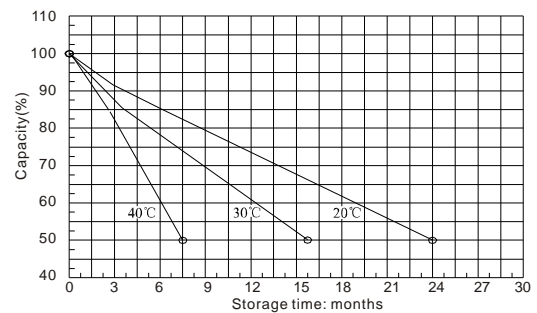
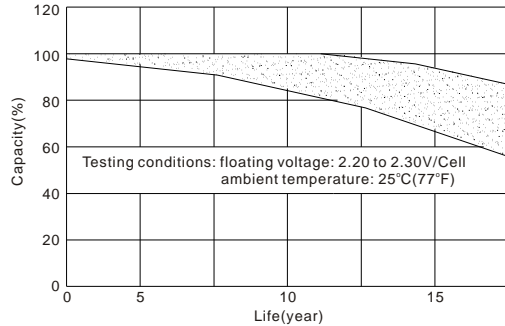
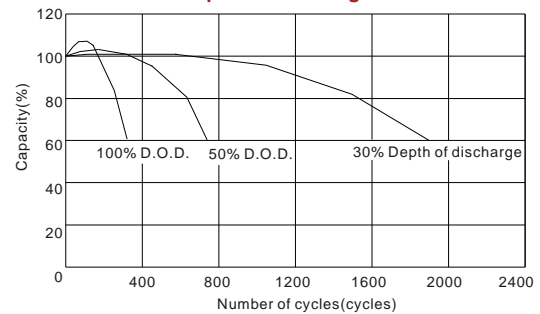
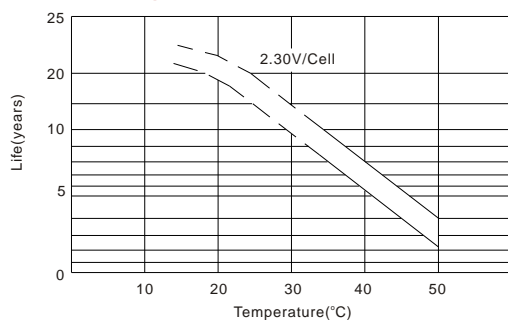
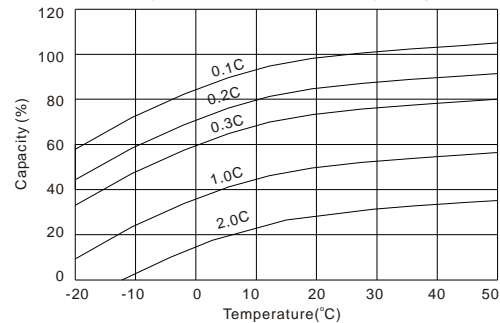
End Voltage/ volt per cell	30min	45min	1h	3h	5h	10h
1.60	832	607	494	215	145	84.1
1.65	796	582	476	208	142	83.1
1.70	757	557	456	202	138	82.0
1.75	716	531	438	195	134	81.0
1.80	678	503	418	188	129	80.0

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

End Voltage/ volt per cell	30min	45min	1h	3h	5h	10h
1.60	1523	1108	936	407	278.0	158.1
1.65	1456	1070	902	398	273.2	156.2
1.70	1388	1031	868	386	268.3	154.2
1.75	1321	994	831	377	261.1	152.3
1.80	1253	954	797	365	253.8	150.4

(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 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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ISO9001:2008



MH25860



G4M19906-9202-E-16


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