

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

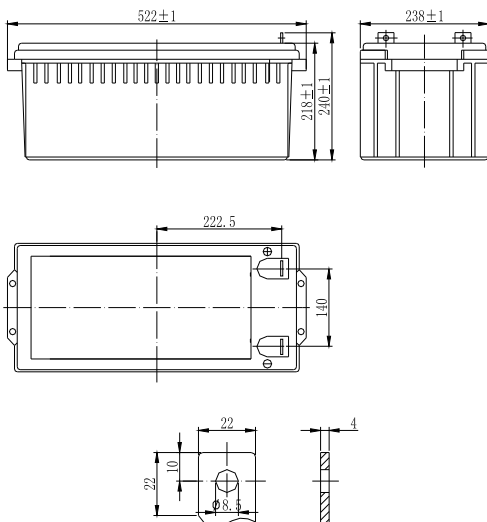
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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, 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)	522 / 20.55
Width(mm / inch)	238 / 9.37
Height(mm / inch)	218 / 8.58
Total Height(mm / inch)	240 / 9.45
Approx. Weight(Kg / lbs)	65 / 143.3



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
20 hour rate (10A, 10.5V)	200Ah
10 hour rate (18.8A, 10.5V)	188Ah
5 hour rate (35.6A, 10.5V)	178Ah
1 hour rate (134A, 9.6V)	134Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	3.5mOhms
Self-Discharge	
3% 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)	1000A(5s)
Short Circuit Current	3300A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	14.4-14.7V
Maximum charging current	60A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C

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

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	534	422	344	204	134	51.6	37.8	20.0	10.40
1.65V	493	397	324	196	131	50.4	37.1	19.6	10.30
1.70V	456	374	303	189	128	49.4	36.3	19.2	10.10
1.75V	427	349	283	182	125	48.3	35.6	18.8	10.00
1.80V	369	321	263	175	122	46.9	34.8	18.3	9.84

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	892	737	596	390	279	258	141	99.9	72.1
1.65V	844	701	576	375	273	253	138	98.6	71.5
1.70V	797	664	558	361	268	248	135	97.2	70.9
1.75V	749	625	539	346	262	243	132	95.8	70.4
1.80V	700	594	507	332	257	238	128	94.8	69.8

