

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators 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

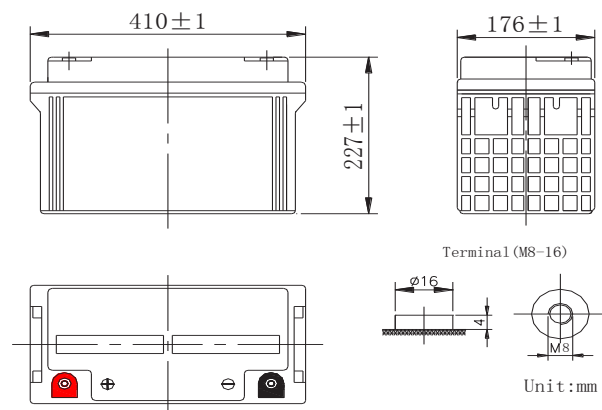
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

## General Feature

- 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.

## SPECIFICATION

Nominal voltage ..... 12V  
 Number of cell ..... 6  
 Length(mm/inch) ..... 410/16.1  
 Width(mm/inch) ..... 176/6.93  
 Height(mm/inch) ..... 227/8.94  
 Total Height(mm/inch) ..... 227/8.94  
 Approx. Weight(kg/lbs) ..... 33.8/74.5



## Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (6A、10.5V)	120Ah
	10 hour rate (11.5A、10.5V)	115Ah
	5 hour rate (20.4A、10.5V)	102Ah
	1 hour rate (72A、9.6V)	72Ah
Internal Resistance	Full charged Battery77°F(25°C): 5mΩ	
Capacity affected by Temperature (20 hour rate)	104° F(40°C)	102%
	77° F(25°C)	100%
	32° F(10°C)	85%
	5° F(-15°C)	65%
Self-Discharge 68°F(20°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current77°F(25°C): 850A(5S)		
Charge (Constant Voltage)	Float: 13.6~13.8 V/77° F(25°C)	
	Cycle:14.5~14.9 V/77°F(25°C) Max.Current: 30A	

Discharge Constant Current (Amperes at 77°F(25°C))

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	341	258	209	122	72.0	30.7	20.8	11.7	6.10
1.65V	319	244	201	119	71.1	30.4	20.7	11.7	6.08
1.70V	296	231	193	115	70.3	30.0	20.6	11.6	6.05
1.75V	274	216	184	110	69.3	29.7	20.4	11.5	6.00
1.80V	252	203	176	108	68.4	29.2	20.2	11.3	5.90

Discharge Constant Power (watts at 77°F(25°C))

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	578	460	367	225	159	147	82.0	58.0	40.7
1.65V	548	437	354	218	156	145	80.0	57.3	40.5
1.70V	520	414	343	211	153	143	79.0	56.6	40.2
1.75V	491	392	331	204	149	139	77.0	56.0	40.0
1.80V	460	367	319	198	146	134	75.0	55.0	39.6

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

