

Overview

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 oneway 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

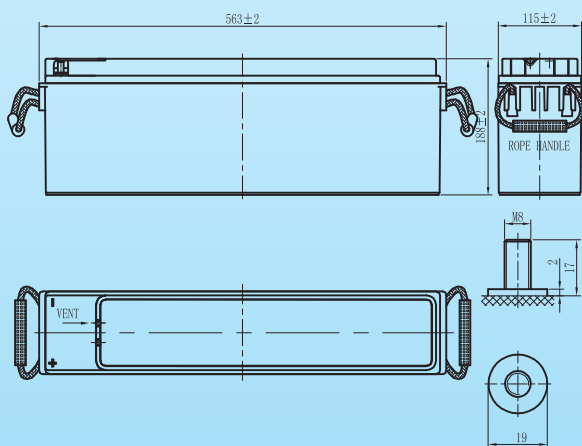
General Features

- 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.
- Case and cover available in both standard and flame retardant ABS.

Dimensions and Weight

Length(mm / inch)	563 / 22.2
Width(mm / inch)	115 / 4.53
Height(mm / inch)	188 / 7.40
Total Height(mm / inch)	188 / 7.40
Approx. Weight(Kg / lbs)	28.5 / 62.8

* Weight deviation: $\pm 3\%$



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	12years
Nominal Capacity 68°F(20°C)	
10 hour rate (7.5A, 10.8V)	75Ah
5 hour rate (14.1A, 10.5V)	70.5Ah
1 hour rate (53.6A, 9.6V)	53.6Ah
Internal Resistance	
Fully Charged battery 68°F(20°C)	$\leq 6.0\text{mOhms}$
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 68°F(20°C)	750A(5s)
Charge Methods: Constant Voltage Charge68°F(20°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	30% of rated capacity
Temperature compensation	-30mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 68°F20°C)

End Point								
Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	198	155	94.9	68.4	53.6	22.0	15.1	7.94
1.65V	185	144	91.0	65.2	52.5	21.5	14.8	7.84
1.70V	169	136	87.0	63.0	51.5	21.0	14.4	7.73
1.75V	160	128	83.6	61.5	49.6	20.6	14.1	7.65
1.80V	150	123	80.9	60.0	48.2	20.2	13.7	7.50

Discharge Constant Power (Watts at 68°F20°C)

End Point								
Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	342	266	167	124	99.8	55.6	41.3	28.7
1.65V	316	252	161	119	96.6	53.9	40.7	28.3
1.70V	293	238	154	116	95.3	53.1	40.1	27.6
1.75V	274	223	148	114	92.7	52.3	39.5	27.4
1.80V	249	206	141	110	90.2	51.5	38.8	26.9

(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.

