

# EB12-38 12V 38Ah(10hr)

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

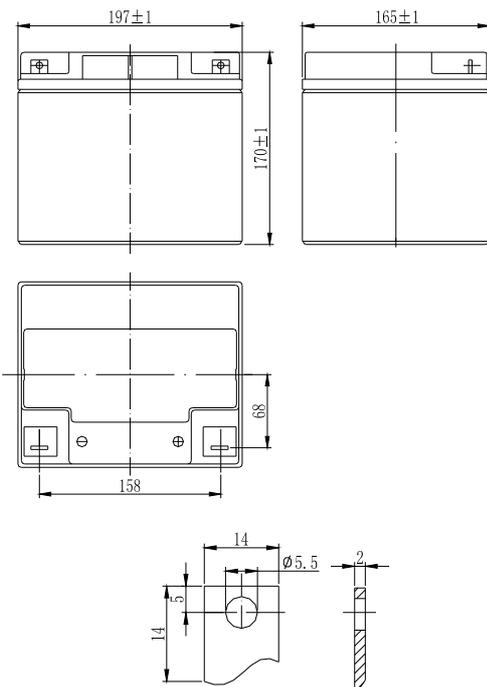
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

## 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).....197 / 7.76  
 Width(mm / inch).....165 / 6.50  
 Height(mm / inch).....170 / 6.69  
 Total Height(mm / inch).....170 / 6.69  
 Approx. Weight(Kg / lbs).....13.5 / 29.8



## Performance Characteristics

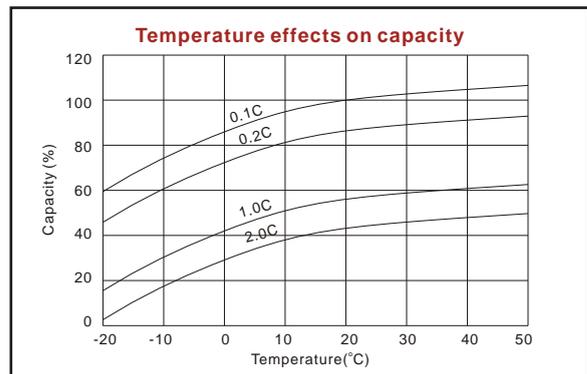
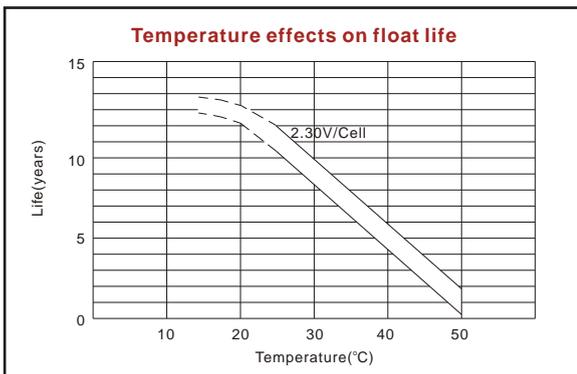
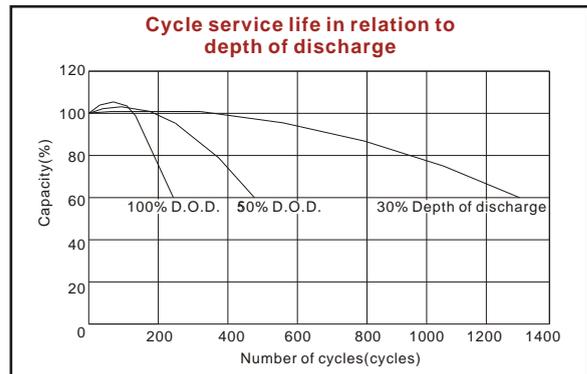
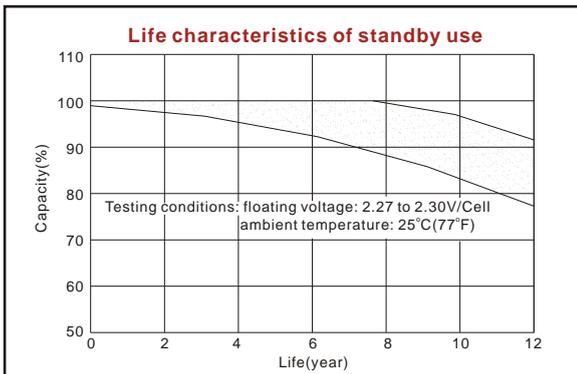
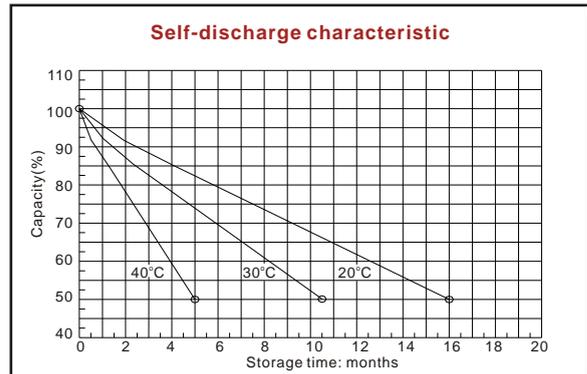
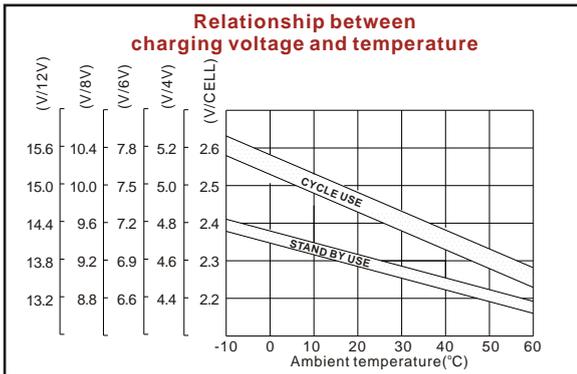
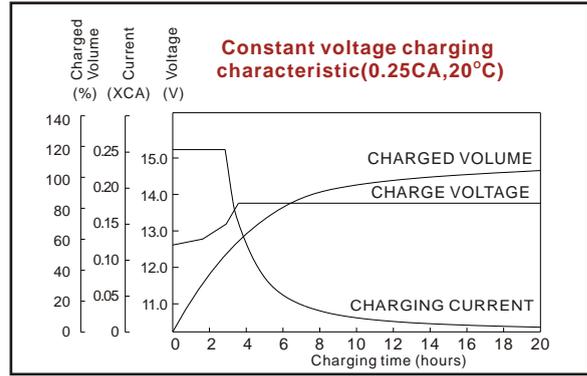
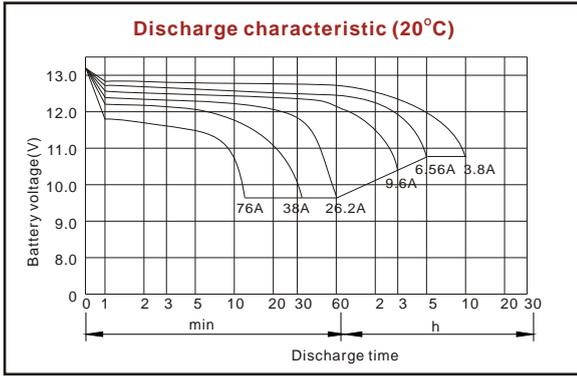
Nominal Voltage .....12V  
 Number of cell .....6  
 Design Life .....12 years  
 Nominal Capacity 68°F(20°C)  
     10 hour rate (3.8A, 1.8V/Cell)..... 38Ah  
     5 hour rate (6.56A, 1.8V/Cell)..... 32.8Ah  
     1 hour rate (26.2A, 1.6V/Cell)..... 26.2Ah  
 Internal Resistance  
     Fully Charged battery 68°F(20°C) ..... 9.5mOhms  
 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 68°F(20°C) .....380A(5s)  
 Charge Methods: Constant Voltage Charge 77°F(25°C)  
     Cycle use ..... 14.4~14.7V  
         Maximum charging current ..... 11.4A  
         Temperature compensation ..... -30mV/°C  
     Standby use ..... 13.6~13.8V  
         Temperature compensation ..... -20mV/°C

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

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h
1.60V	134	88.0	73.6	42.1	26.2	10.70	7.12	4.00
1.65V	126	84.6	70.2	41.3	25.7	10.40	7.04	3.95
1.70V	114	80.0	66.8	40.2	25.2	10.00	6.87	3.90
1.75V	106	73.8	62.5	39.0	24.6	9.60	6.72	3.85
1.80V	88	68.1	57.8	38.1	23.8	9.18	6.56	3.80
1.85V	80	63.5	53.2	36.5	23.2	8.80	6.26	3.72
1.90V	70	52.0	47.6	34.2	22.5	8.40	5.95	3.63

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h
1.60V	252	166	138	85	65.0	49.4	20.1	13.3
1.65V	240	160	133	83	63.6	48.4	19.6	13.2
1.70V	225	158	127	80	63.2	48.0	19.1	13.1
1.75V	205	141	119	78	62.5	47.5	18.5	13.0
1.80V	171	140	112	76	60.0	46.4	18.0	12.8
1.85V	158	125	103	72	57.0	45.7	17.4	12.3
1.90V	140	103	95	68	55.0	45.0	16.8	11.9



ISO9001:2000

MH25860

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