



# UN45-12D (12V45Ah/10hr)

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

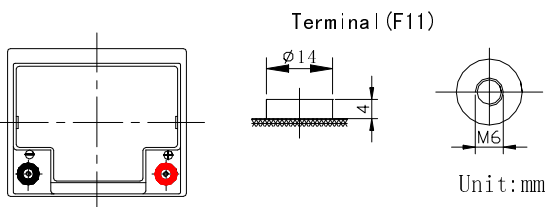
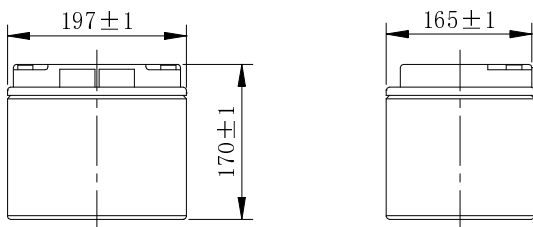
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

## Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (2.35A、10.5V)	47Ah
	10 hour rate (4.5A、10.5V)	45Ah
	5 hour rate (7.8A、10.5V)	39Ah
	1 hour rate (28A、9.6V)	28Ah
Internal Resistance	Full charged Battery77°F(25°C):10mΩ	
Capacity affected by Temperature (10 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): 450A(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: 11.3A	

## SPECIFICATION

- Nominal voltage ..... 12V
- Number of cell ..... 6
- Length(mm/inch) ..... 197/7.76
- Width(mm/inch) ..... 165/6.5
- Height(mm/inch) ..... 170/6.69
- Total Height(mm/inch) ..... 170/6.69
- Approx. Weight(kg/lbs) ..... 13.5/29.7



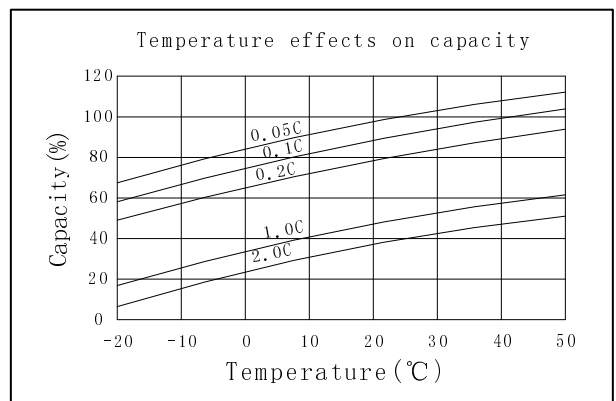
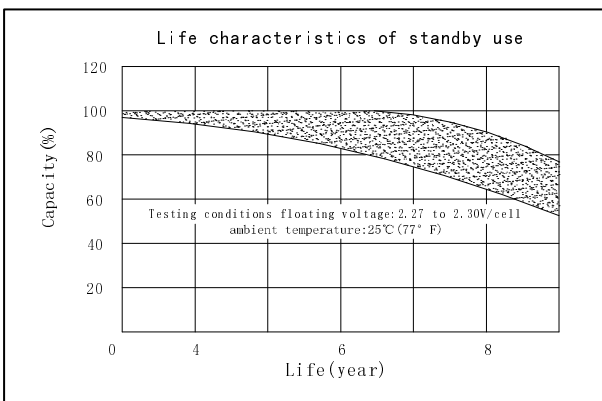
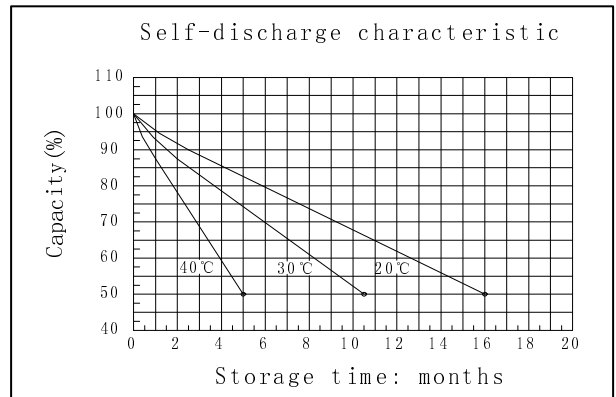
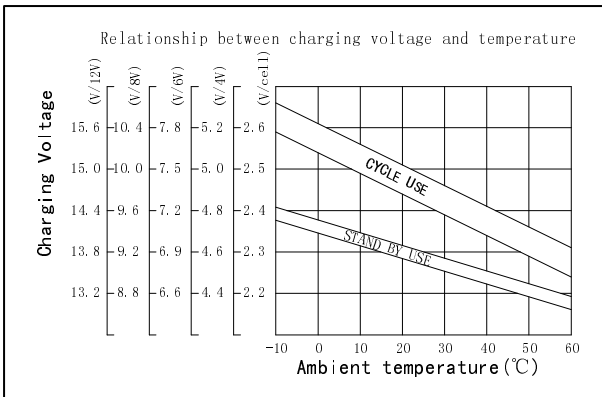
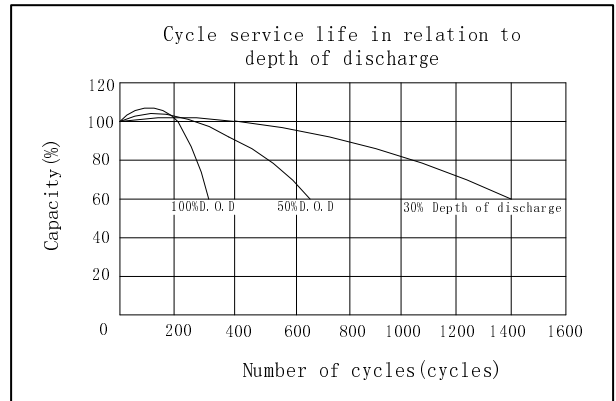
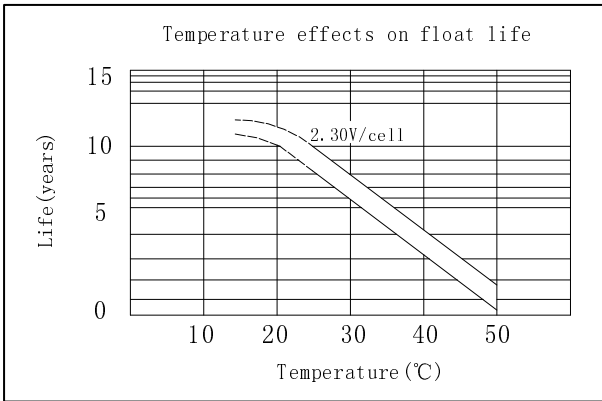
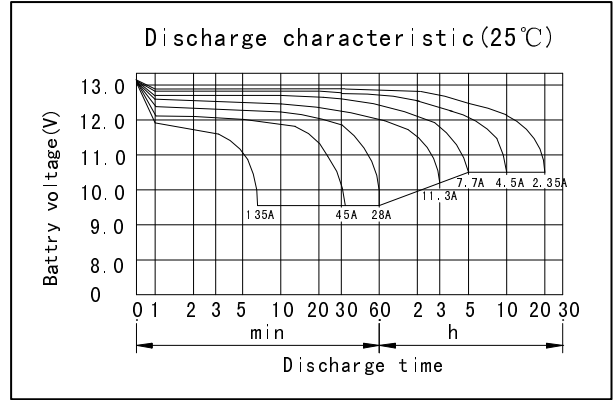
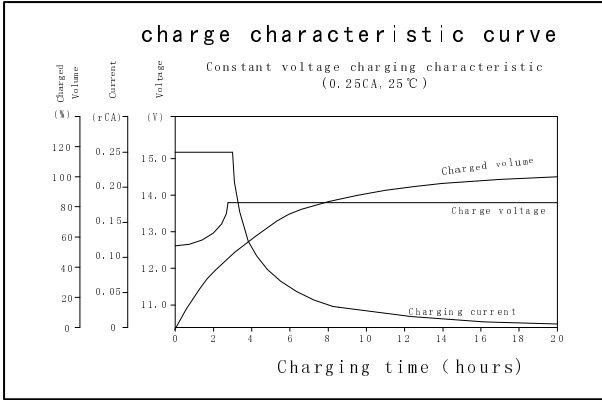
Discharge Constant Current (Amperes at 77° F25 °C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	147	98.0	77.0	45.5	28.0	11.8	7.95	4.60	2.40
1.65V	136	93.0	74.1	43.7	27.2	11.6	7.91	4.57	2.39
1.70V	125	88.0	71.2	41.5	26.3	11.3	7.86	4.53	2.37
1.75V	114	83.0	67.1	39.6	25.4	11.0	7.80	4.50	2.35
1.80V	103	78.0	64.0	37.7	24.8	10.7	7.75	4.46	2.33

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	260	173	144	83.0	70.0	55.6	32.6	23.0	15.0
1.65V	246	167	140	81.8	68.7	54.8	32.1	22.8	14.8
1.70V	232	161	135	80.5	67.4	54.0	31.6	22.5	14.7
1.75V	218	154	131	79.3	66.1	53.1	31.0	22.3	14.5
1.80V	209	148	126	78.0	64.8	52.3	30.5	22.0	14.4

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



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THE INTERNATIONAL CERTIFICATION NETWORK ISO9001:2000  
 MH29838  
 CE  
 EMC tested  
 C4M20412-3881-E-16

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