



# UNF100-12

(12V100Ah/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

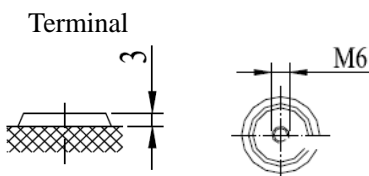
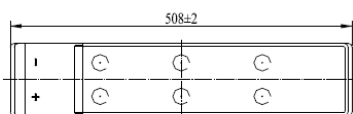
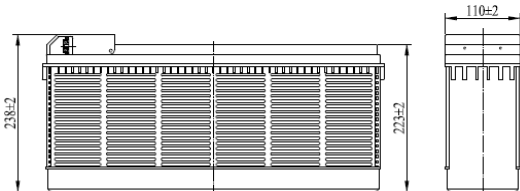
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed 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 (5.5A、10.8V)	110Ah
	10 hour rate (10A、10.8V)	100Ah
	5 hour rate (18.3A、10.5V)	91.5Ah
	1 hour rate (72A、9.6V)	72Ah
Internal Resistance	Full charged Battery77°F(25°C): 5mΩ	
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): 800A(5S)		
Charge (Constant Voltage)	Float: 13.6~13.8 V/77° F(25°C)	
	Cycle:14.4~14.7 V/77°F(25°C) Max. Current: 25A	

## SPECIFICATION

- Nominal voltage ..... 12V
- Number of cell ..... 6
- Length(mm/inch) ..... 508/20.0
- Width(mm/inch) ..... 110/4.33
- Height(mm/inch) ..... 223/8.78
- Total Height(mm/inch) ..... 238/9.37
- Approx. Weight (kg/lbs) ..... 32.5/71.6



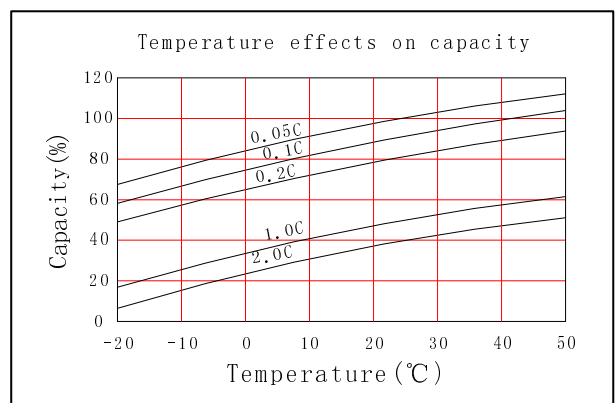
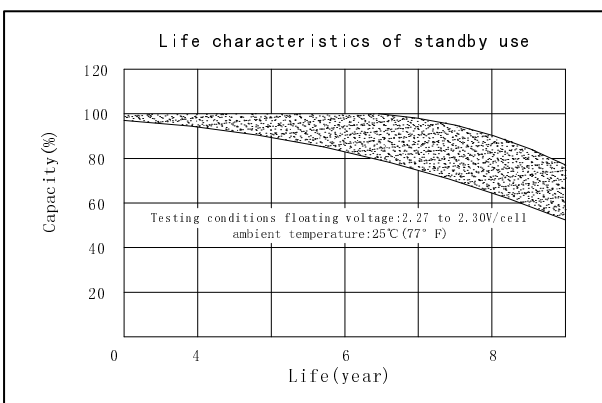
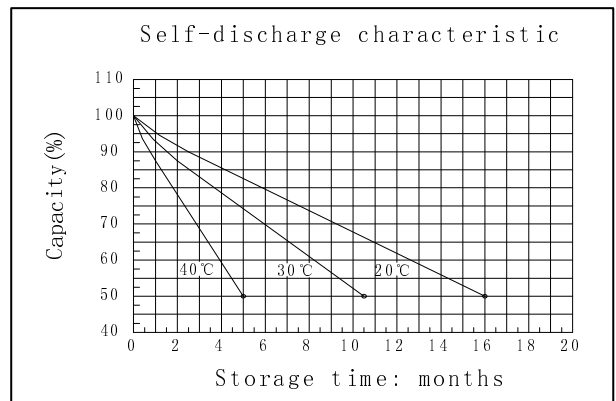
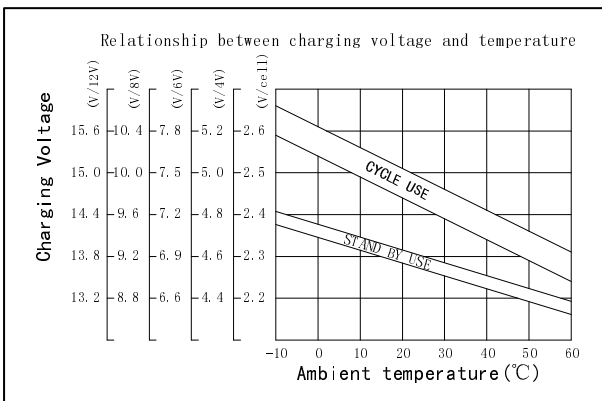
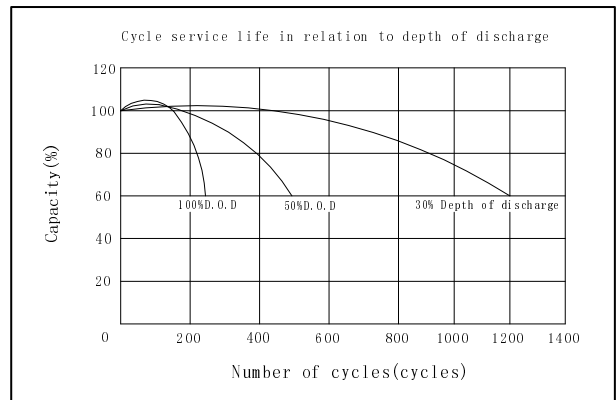
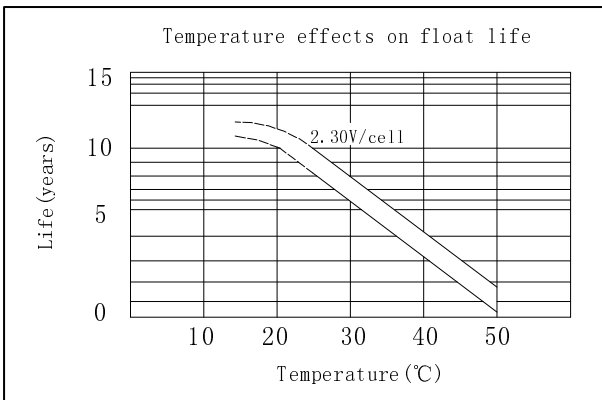
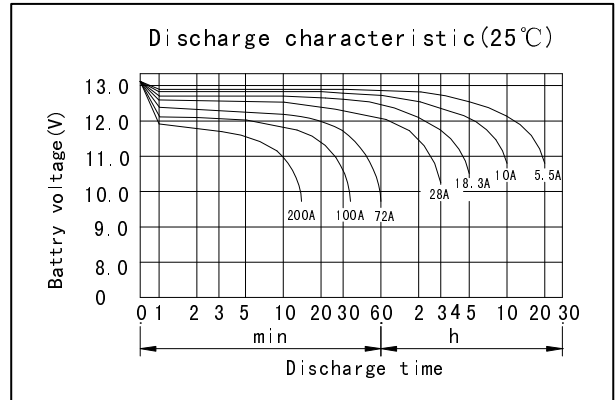
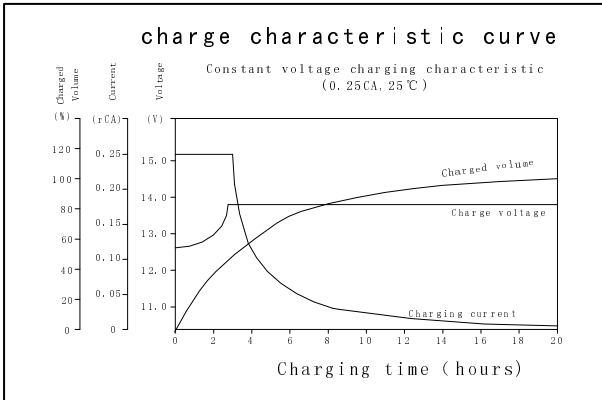
Discharge Constant Current (Amperes at 77° F 25 °C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V		283	205	125	89.0	72.0	29.1	19.5	10.4
1.65V		270	195	122	86.5	70.5	28.6	19.1	10.4
1.70V		255	183	118	84.0	69.0	28.0	18.7	10.3
1.75V		240	171	114	81.5	67.5	27.4	18.3	10.2
1.80V		223	158	109	78.5	65.8	26.8	17.8	10.0

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		451	365	221	171	138	77.7	57.0	37.1
1.65V		435	355	213	165	134	76.8	56.5	36.8
1.70V		412	342	205	160	131	75.9	56.0	36.5
1.75V		404	328	197	154	127	75.0	55.4	36.2
1.80V		376	312	187	148	123	74.1	54.9	35.9

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



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