



UNF150-12 (12V150Ah/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

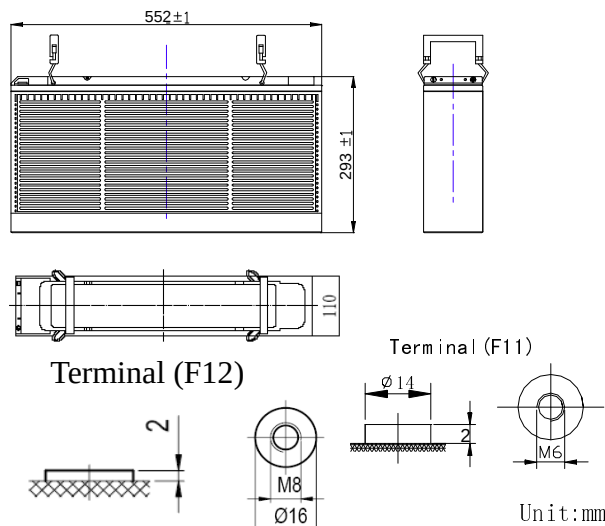
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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.
- Design life 12 years.
- Maintenance-free operation.
- Low self discharge.

SPECIFICATION

Nominal voltage		12V
Number of cell		6
Length(mm/inch)		551/21.7
Width(mm/inch)		110/4.33
Height(mm/inch)		287/11.3
Total Height(mm/inch)		293/11.6
Approx. Weight (kg/lbs)		46/101.4



Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (8.0A、10.8V)	160Ah
	10 hour rate (15A、10.8V)	150Ah
	5 hour rate (28.6A、10.5V)	143Ah
	1 hour rate (110A、9.6V)	110Ah
Internal Resistance	Full charged Battery77°F(25°C): 4.5mΩ	
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): 1000A(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: 37.5A	

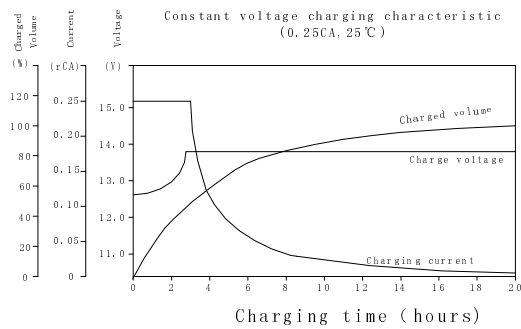
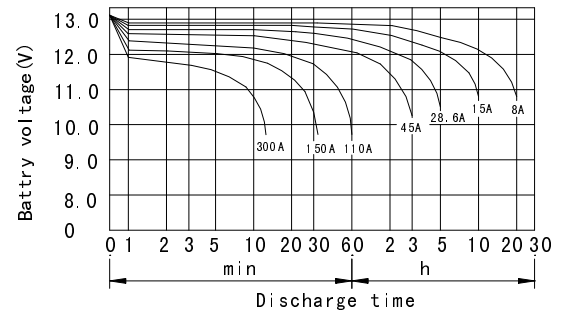
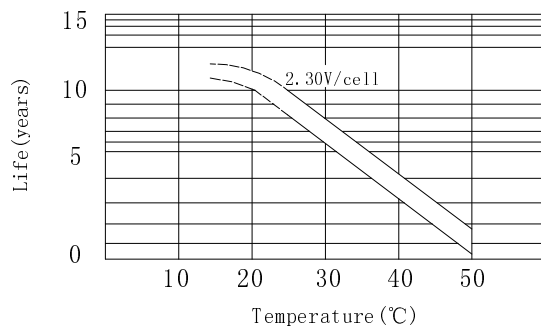
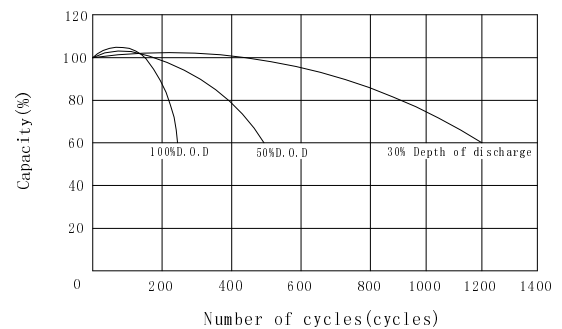
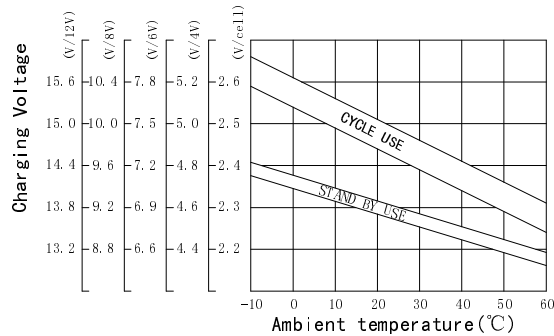
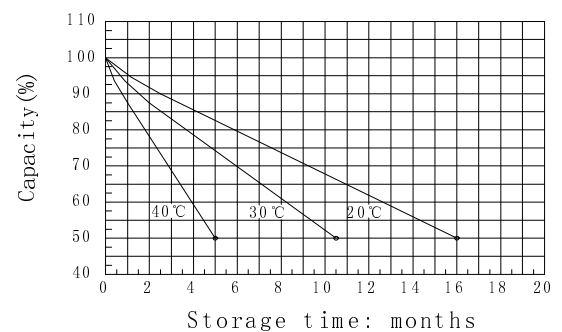
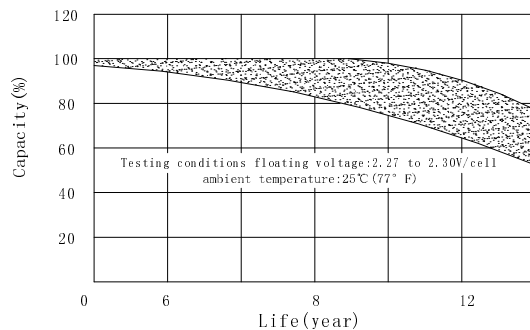
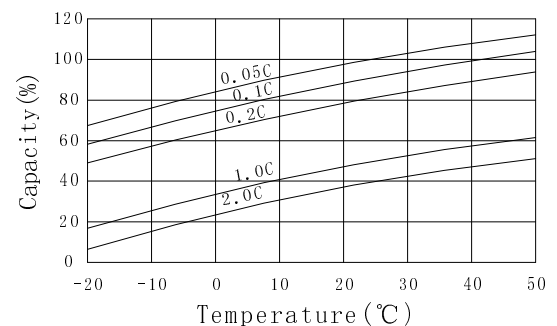
Discharge Constant Current (Amperes at 77° F25 °C)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	375	268	175	135	110	46.5	29.1	15.4	8.20
1.65V	360	260	170	132	108	45.8	29.0	15.4	8.20
1.70V	342	250	164	127	105	45.0	28.8	15.3	8.15
1.75V	322	238	158	122	101	44.0	28.6	15.2	8.10
1.80V	299	223	150	116	96.0	42.5	28.3	15.0	8.00

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

End Point Volts/Cell		10min	15min	30min	45min	1h	2h	3h	5h
1.60V		560	453	305	240	190	121	88.5	57.5
1.65V		540	440	295	232	185	118	87.9	57.1
1.70V		516	425	284	224	180	114	87.2	56.5
1.75V		490	407	272	214	174	110	86.4	55.8
1.80V		460	382	256	200	168	105	85.2	55.0

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

charge characteristic curve

Discharge characteristic (25°C)

Temperature effects on float life

Cycle service life in relation to depth of discharge

Relationship between charging voltage and temperature

Self-discharge characteristic

Life characteristics of standby use

Temperature effects on capacity

OREMA POWER CO., LTD
Add: Datang Industry Park Xinfeng Ganzhou City, Jiangxi Province, China
TEL: +86-0797-2299669 +86-0797-2299553
FAX: +86-0797-2299553

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