NP55-12D *(12V55Ah/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 bydrogen 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

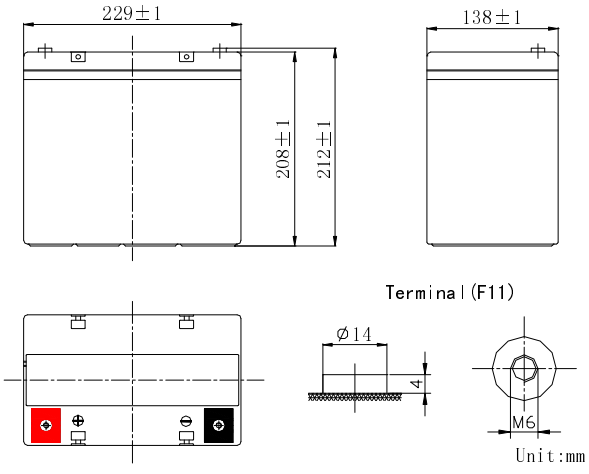
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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.

SPECIFICATION

Nominal voltage ····· 12V
Number of cell ····· 6
Length(mm/inch) ····· 229/9.01
Width(mm/inch ····· 138/5.43
Height(mm/inch) ····· 208/8.30
Total Height(mm/inch) ····· 212/8.35
Approx. Weight(kg/lbs) ····· 14.1/33.1



Performance Characteristics

Capacity 77°F(25℃)	20 hour rate (2.9A、10.8V)	58Ah
	10 hour rate (5.5A、10.8V)	55Ah
	5 hour rate (9.6A、10.5V)	48Ah
	1 hour rate (35.2A、9.6V)	35.2Ah
Internal Resistance	Full charged Battery77°F(25℃):8mΩ	
Capacity affected by Temperature (10 hour rate)	104° F(40℃)	102%
	77° F(25℃)	100%
	32° F(10℃)	85%
	5° F(-15℃)	65%
Self-Discharge 68°F(20℃)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current77°F(25℃): 550A(5S)		
Charge (Constant Voltage)	Float：13.6～13.8 V/77° F/(25℃)	
	Cycle:14.4～14.7 V/77°F/(25℃) Max. Current：13.8A	

Discharge Constant Current (Amperes at 77° F25 ℃)

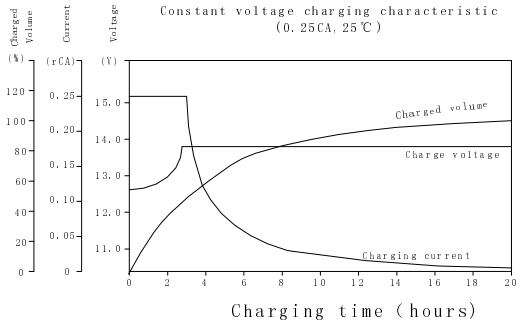
End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	172	130	98.0	58.2	35.2	14.5	9.98	5.66	2.95
1.65V	162	123	94.0	56.5	34.4	14.3	9.88	5.63	2.94
1.70V	152	115	89.5	54.5	33.6	14.0	9.75	5.59	2.93
1.75V	141	108	84.4	52.9	32.7	13.7	9.60	5.55	2.92
1.80V	128	100	50.5	51.0	31.6	13.4	9.43	5.50	2.90

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

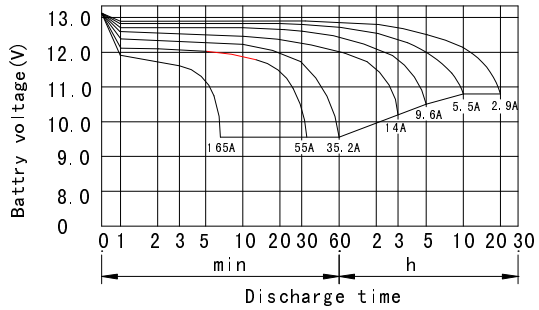
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	330	247	191	115	88.4	71.4	42.5	30.1	19.4
1.65V	310	233	183	113	87.1	69.8	41.7	29.5	19.3
1.70V	291	220	176	111	85.3	68.2	40.8	28.9	18.8
1.75V	271	207	168	109	83.4	66.6	39.8	28.3	18.7
1.80V	257	192	159	107	81.2	64.9	38.8	27.7	18.5

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

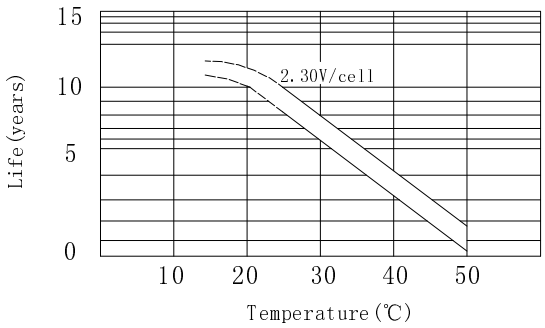
charge characteristic curve



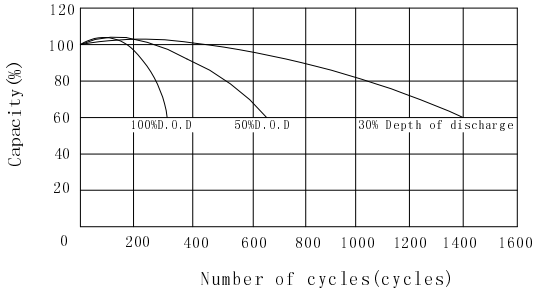
Discharge characteristic(25℃)



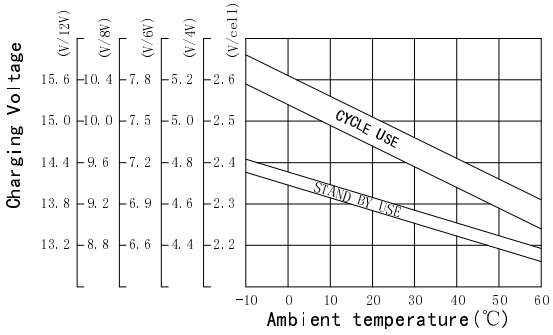
Temperature effects on float life



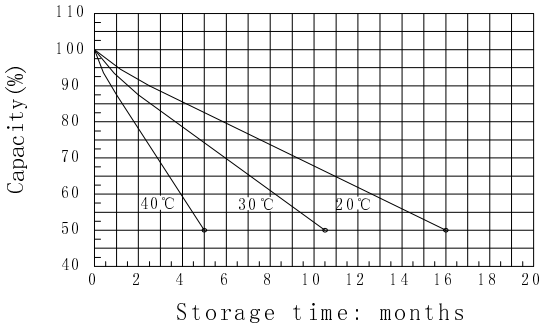
Cycle service life in relation to depth of discharge



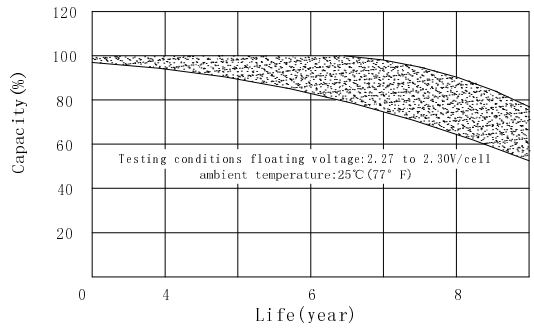
Relationship between charging voltage and temperature



Self-discharge characteristic



Life characteristics of standby use



Temperature effects on capacity