

## CE52-12 (12V52Ah/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

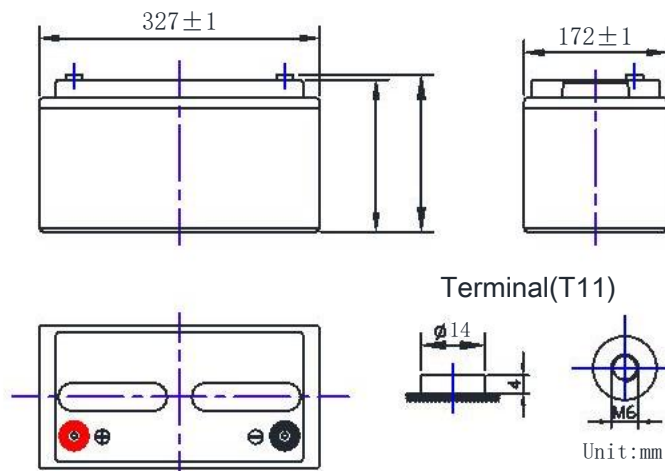
- 1 Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- 2 Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- 3 UL-recognized component.
- 4 Can be mounted in any orientation.
- 5 Computer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

### Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (3.4A、10.8V)	55Ah
	10 hour rate (6.5A、10.5V)	52Ah
	5 hour rate (11.1A、10.5V)	44Ah
	1 hour rate (39.5A、9.6V)	31.2Ah
Internal Resistance	Full charged Battery77°F(25°C) : 8mΩ	
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): 520A(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 : 13A	

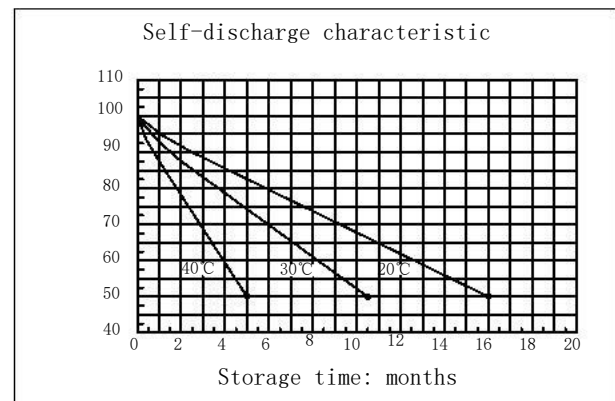
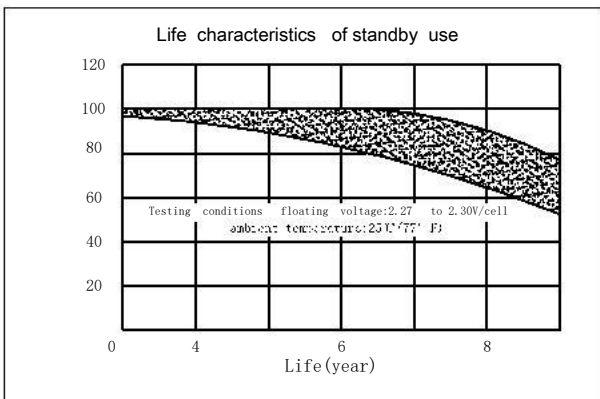
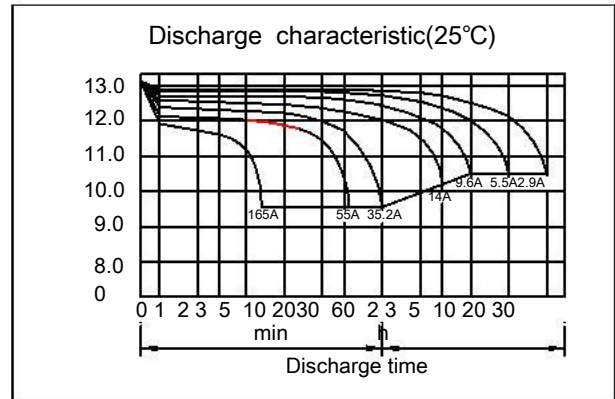
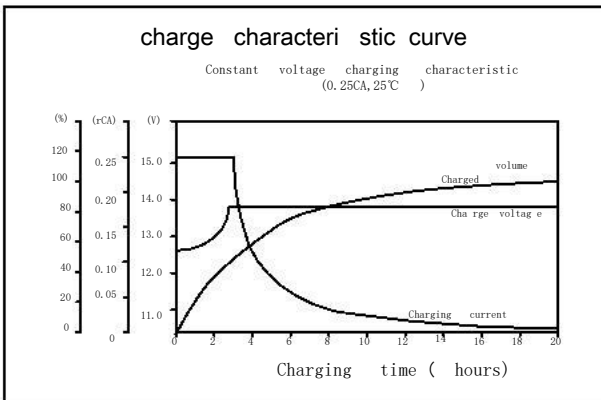
### SPECIFICATION

Nominal voltage.....	12V
Number of cell.....	6
Length(mm/inch) .....	327/12.87
Width(mm/inch) .....	172/6.77
Height(mm/inch) .....	173/6.81
Total Height(mm/inch).....	178/7.0
Approx. Weight(kg/lbs).....	18.6/40.9



Constant Current Discharge Date(Amperes at 25°C)									
F.V	5min	10min	15min	30min	1h	2h	3h	5h	10h
1.60V	172	130	98	58	35	18.6	13	8.85	5.3
1.65V	162	123	94	56	34	18.5	13	8.85	5.3
1.70V	152	115	89	54	33	18.2	12.8	8.8	5.25
1.75V	141	108	84	52	32	18	12.8	8.5	5.2
1.8V	128	100	50	50	31	17.5	12.5	8.4	5.2

Constant Power Discharge Date(Watts per cell at 25°C)									
F.V	5min	10min	15min	30min	1h	2h	3h	5h	10h
1.60V	330	247	191	115	71	40	30	18	8.5
1.65V	310	233	183	113	68	38	28	18	8.5
1.70V	291	220	176	111	66	37	26	16.5	8.2
1.75V	271	207	168	109	64	36	24	16.5	8.2
1.8V	257	192	159	107	60	35	22	15	8



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