

#### SEALED ELECTROLYTE. MAINTENANCE FREE

# **Battery Specification**

Normal Voltage	12V
Number of cell	6
Design life	5 years

## Nominal Capacity 77°F (25°C)

20 hour rate (0.225A, 10.5V) 4.50Ah 10 hour rate (0.43A, 10.5V) 4.30Ah 5 hour rate (0.69A, 10.5V) 3.45Ah 1 hour rate (2.96A, 9.6V) 2.96Ah

#### **Internal Resistance**

Fully Charged battery 77°F(25°C) ≤60mOhms

#### **Self-Discharge**

3% of capacity declined per month at 20°C (average)

#### **Operating Temperature Range**

Discharge  $-20 \sim 60^{\circ}$ C Charge  $-10 \sim 60^{\circ}$ C Storage  $-20 \sim 60^{\circ}$ C

Max. Discharge Current 77°F(25°C) 67.5A(5s)
Short Circuit Current 225A
Charge Methods: Constant Voltage Charge

77ºF (25ºC)

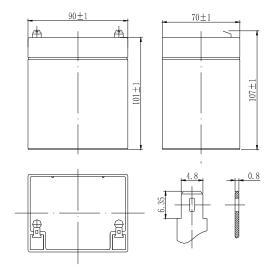
Cycle use 2.40-2.45VPC
Maximum charging current 1.80A
Temperature compensation -30mV/°C
Standby use 2.23-2.30VPC

**Temperature compensation** -20mV/°C

## **Dimensions and Weight**

90 / 3.54			
70 / 2.76			
101 / 3.98			
107 / 4.21			
1.43 / 3.15			

#### \*Weight deviation: ± 5%



# **Battery Construction**

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

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

End Point									
Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	15.3	12.4	8.64	4.63	2.96	1.20	0.76	0.46	0.233
1.65V	14.5	11.8	8.26	4.44	2.86	1.16	0.74	0.45	0.231
1.70V	13.6	11.2	7.97	4.25	2.74	1.12	0.71	0.44	0.228
1.75V	12.8	10.6	7.45	4.04	2.62	1.07	0.69	0.43	0.225
1.80V	11.9	9.98	7.03	3.83	2.50	1.03	0.67	0.42	0.221

#### Discharge Constant Power (Watts at 77°F25°C)

End Point									
Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	30.4	21.3	16.98	9.22	7.44	5.22	3.35	2.43	1.56
1.65V	28.5	20.1	16.02	8.76	7.10	5.01	3.24	2.37	1.54
1.70V	26.6	18.8	15.15	8.28	6.75	4.77	3.13	2.31	1.51
1.75V	24.8	17.6	14.19	7.80	6.38	4.54	3.01	2.24	1.47
1.80V	22.9	16.42	13.22	7.31	6.01	4.29	2.89	2.16	1.44

(Note) The above characteristics data are average values obtained within threecharge / discharge cycles. All data shall be changed without notice, Starx Security reseves the right to explain and update the information.

## **General Features**

Absorbent Class Mat (AGM) technology for efficient gas recombination of up to 99% and freedom electrolyte maintenance or water adding.

Not restricted for air transport-complices 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.

Case and cover available in both standard and flame retardant ABS.





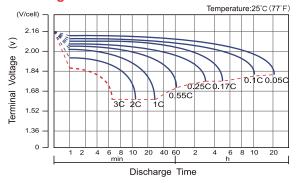




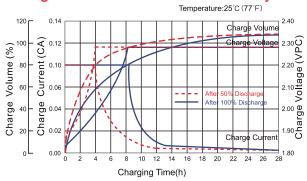


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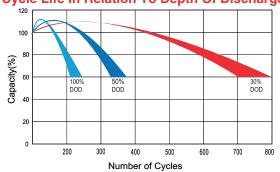
#### **Discharge Characteristics Curve**



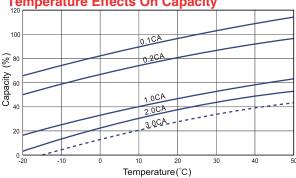
# **Charge Characteristic Curve For Standby Use**



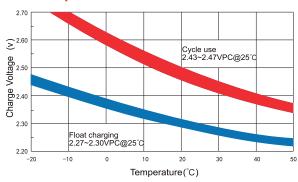




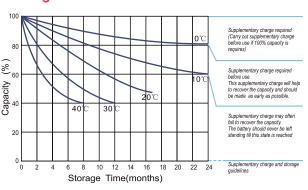
## **Temperature Effects On Capacity**



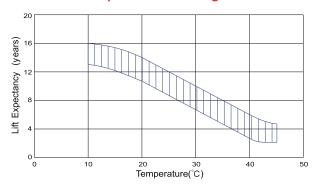
## **Relationship Between Charginf Voltage And Temperature**



## **Storage Characteristics**



#### **Effect Of Temperature On Long Term Life**



#### Life Characteristics Of Standby Use

