

DEEP CYCLE LONG LIFE BATTERY

Battery Specification

Normal Voltage	6V
Number of cell	3
Design life	10 years

Nominal Capacity 77°F (25°C)

10 hour rate (22.50A, 5.4V)	225.0Ah
5 hour rate (39.2A, 5.25V)	196.00Ah
1 hour rate (147A, 4.8V)	147.0Ah

Internal Resistance

Fully Charged battery 77°F(25°C) ≤3.2mOhms

Self-Discharge

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

Operating Temperature Range

Discharge	-20 ~ 60°C
Charge	-10 ~ 60°C
Storage	-20 ~ 60°C

Max. Discharge Current 77°F(25°C) 1000(5s)

Short Circuit Current 3800A

Charge Methods: Constant Voltage Charge
77°F (25°C)

Cycle use 2.40-2.45VPC

Maximum charging current 67.5A

Temperature compensation -30mV/°C

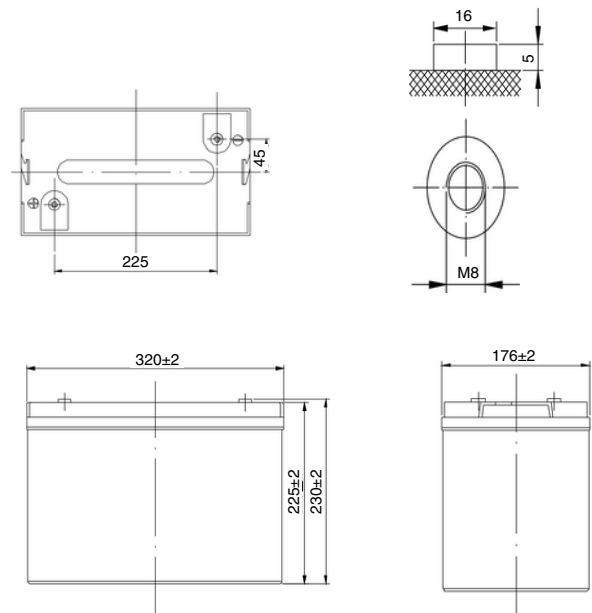
Standby use 6.6-6.9V

Temperature compensation -20mV/°C

Dimensions and Weight

Length (mm / inch)	320 / 12.7
Width (mm / inch)	176 / 7.00
Height (mm / inch)	225 / 88.6
Total Height (mm / inch)	230 / 90.5
Approx. Weight(Kg / lbs)	30.5

*Weight deviation: ± 3%



Characteristics Curve

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

End Point	30min	1h	3h	5h	10h	20h
1.60V	224	147	58.8	41.2	23.0	11.9
1.65V	217	144	57.6	40.7	22.9	11.8
1.70V	209	141	56.4	40.0	22.8	11.7
1.75V	200	138	55.2	39.2	22.7	11.6
1.80V	192	134	53.6	38.3	22.5	11.5

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

End Point	30min	45min	1h	2h	3h	5h
1.60V	432	320	273	162	114	80.1
1.65V	419	315	269	159	113	79.5
1.70V	405	309	263	155	111	78.9
1.75V	388	302	258	152	110	78.9
1.80V	372	296	252	147	108	78.3

Product Feature



Long cycle life



Excellent Discharge Performance



High Safety Performance



Wide Range Temperature



Warranty



Maintenance Free

Application scenarios



Wind Power System



Electric Vehicle



Solar Systems

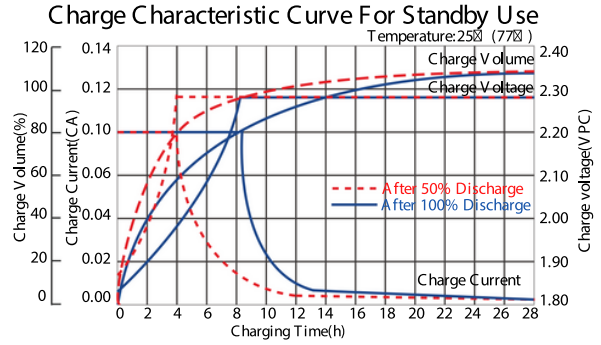
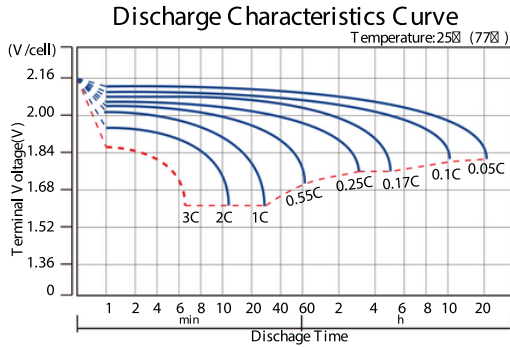


Communications Equipment

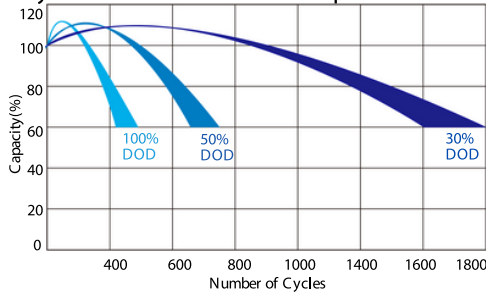


Railway System

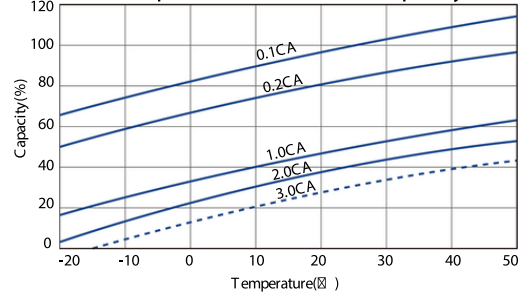
DEEP CYCLE LONG LIFE BATTERY



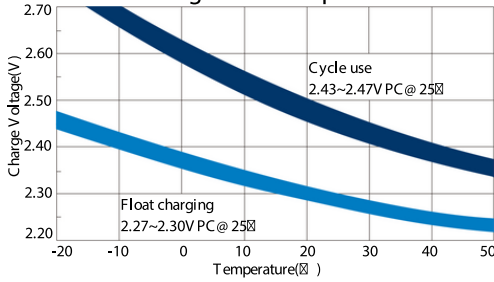
Cycle Life In Relation To Depth Of Discharge



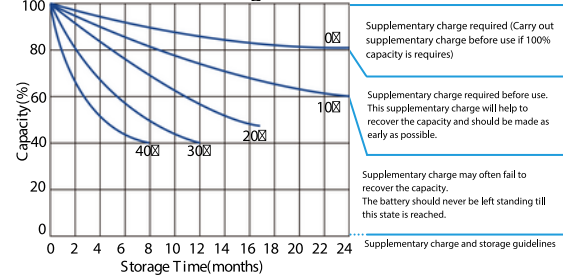
Temperature Effects On Capacity



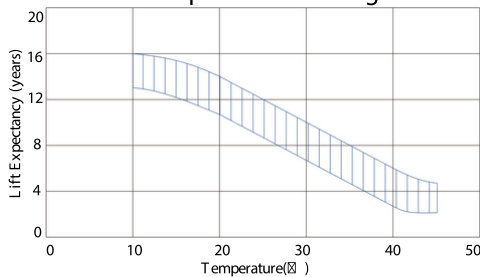
Relationship Between Charging Voltage And Temperature



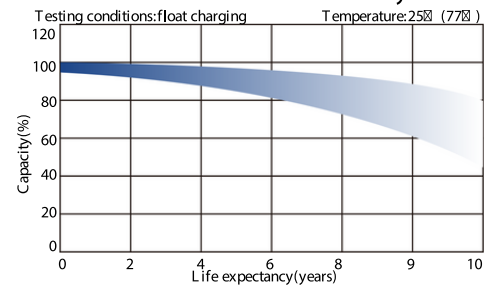
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



Cell Charging Procedures

Application	Charge Voltage (V/Cell)			Max. Charge Current
	Temperature	Set point	Allowable Range	
Cycle Use	25°C	2.450	2.40~2.50	0.3C
Standby	25°C	2.275	2.25~2.30	

Effect of temperature on capacity

Temperature	Dependency of capacity(0.2C)
40°C	102%
25°C	100%
0°C	85%
-15°C	65%

Cell Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current (A)	<0.2C	0.2C~0.5C	0.5~1.0C	>1.0C

Self Discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%