

Lead carbon series Super carbon technology + deep circulation technology is adopted, which has the advantages of energy and service life. Strong over discharge recovery ability and excellent cycle life in PSoC state. Strong charging acceptance, and the charging time can be shortened by 30%.



### ► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.80Vper cell@25°C(77°F)
Weight	Approx. 47kg (103.6 lbs)
Maximum Discharge Current	1500A(5sec)
Internal Resistance	Approx. 4 mΩ
Operating Temperature Range	Discharge: -15°C~50°C ( 5°F~122°F) Charge: -15°C~40°C ( 5°F~104°F) Storage: -15°C~40°C ( 5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	37.5 A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	This is Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using . For higher temperatures the time interval will be shorter.
Terminal	Thread lead alloy recessed terminal to accept M8 bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



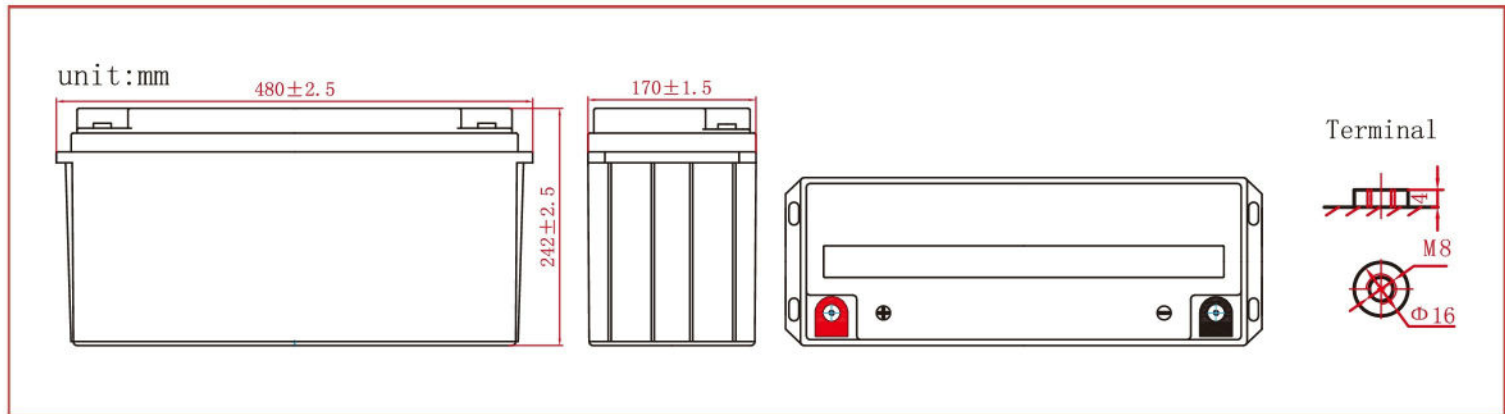
IT1548HL06061801



This is -manufactured VRLA (Absorbent Glass Mat type) batteries are UL-recognized components under UL1989.

This is also certified by ISO 9001 and ISO 14001.

Dimensions :	Overall Height (H)	Containerheight(h)	Length (L)	Width (W)
Unit: mm	242±2.5	242±2.5	480±2.5	170±1.5



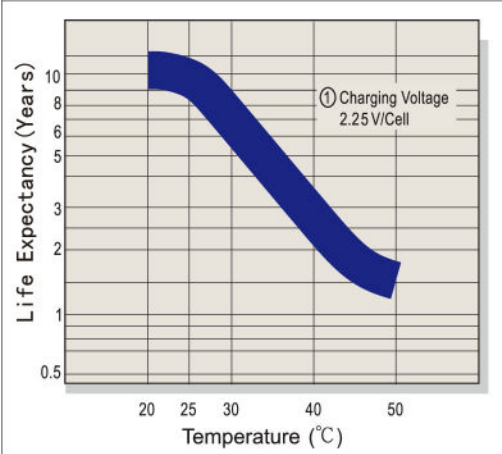
### Constant Current Discharge Characteristics Unit : A(25°C/77° F)

F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	158	116	95.6	40.1	26.9	18.5	15.4	8.20
1.67V	155	114	94.2	39.8	26.7	18.5	15.3	8.18
1.70V	153	113	93.1	39.5	26.6	18.4	15.3	8.15
1.75V	147	110	90.2	38.8	26.2	18.3	15.2	8.08
1.80V	141	106	86.3	37.4	25.4	18.0	15.0	7.96
1.85V	132	100	80.0	34.4	23.6	17.1	14.4	7.69

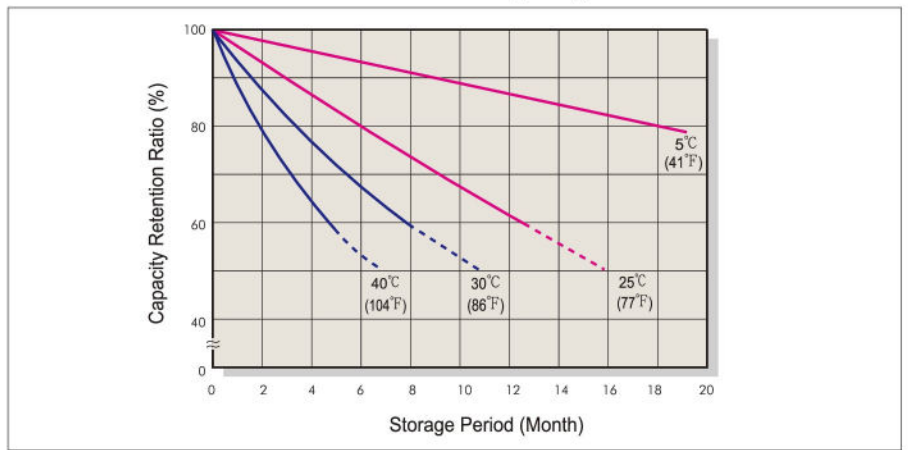
### Constant Power Discharge Characteristics Unit : : W/cell (25°C/77° F)

F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	261	194	163	75.3	52.5	36.2	30.3	16.1
1.67V	254	189	161	74.6	52.4	36.0	30.2	16.1
1.70V	246	185	159	74.0	52.2	36.0	30.1	16.0
1.75V	232	176	155	72.6	51.5	35.7	29.9	15.9
1.80V	215	164	151	70.1	50.1	35.0	29.4	15.7
1.85V	192	148	142	65.0	47.1	33.8	28.5	15.2

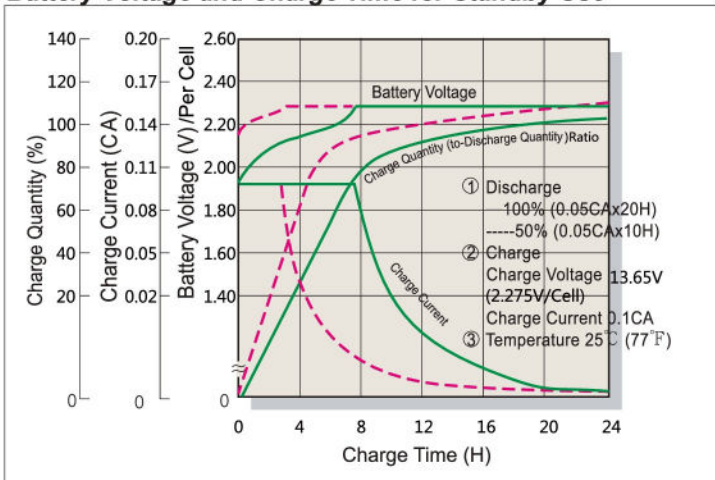
### Trickle(or Float)Design Life



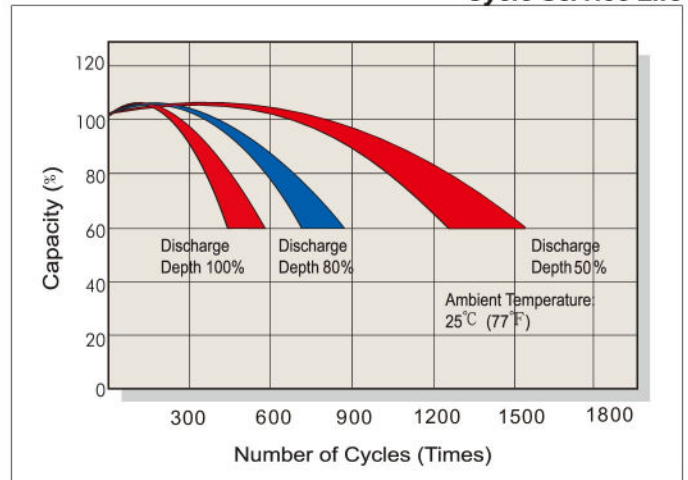
### Capacity Retention Characteristic



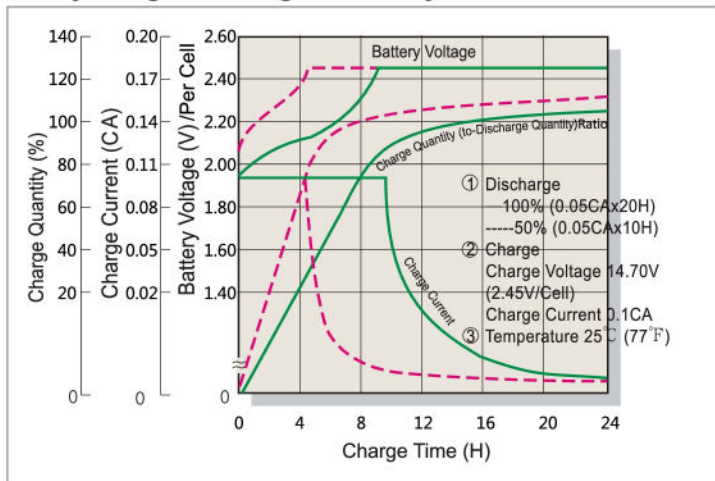
### Battery Voltage and Charge Time for Standby Use



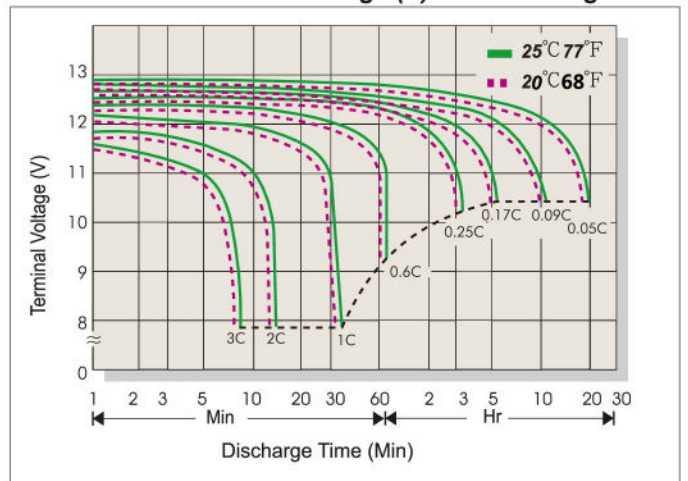
### Cycle Service Life



### Battery Voltage and Charge Time for Cycle Use



### Terminal Voltage (V) and Discharge Time



### Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C (77°F)	2.45	2.40~2.50	0.30C
Standby	25°C (77°F)	2.275	2.25~2.30	

### Discharge Current VS. Discharge Voltage

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

### Effect of temperature on capacity (10HR)

Temperature	Dependency of Capacity (10HR)
40 °C	102%
25 °C	100%
0 °C	85%
-15 °C	65%

### Self-discharge Characteristics

Charge Voltage(V/Cell)	Charge Voltage(V/Cell)
3 Months	91%
6 Months	82%
12 Months	64%