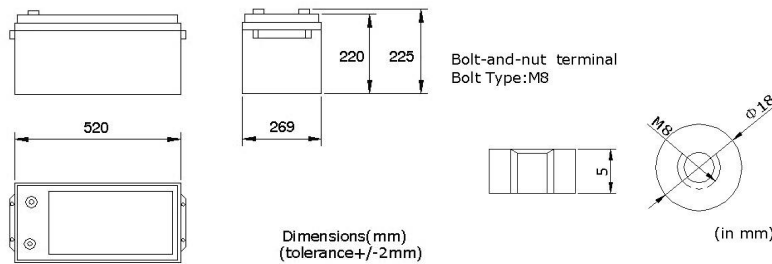


PHYSICAL SPECIFICATION



Nominal Voltage		12V
Nominal Capacity (10HR)		250Ah
Dimension	Length	520±2mm (20.47 inches)
	Width	269±2mm (10.59 inches)
	Container Height	220±2mm (8.66inches)
	Total Height	225±2mm (8.86 inches)
Weight		Approx. 73Kg ±3% (160.94lbs)
Standard Terminal		Bolt-and-nut terminal Bolt Type: M8



Shimastu Gel series Gel Batteries are manufactured with special separators and silica gel immobilizing the electrolyte inside the battery, it is perfect for frequent cyclic deep discharge or standby applications under harsh environments, and has a long service life.

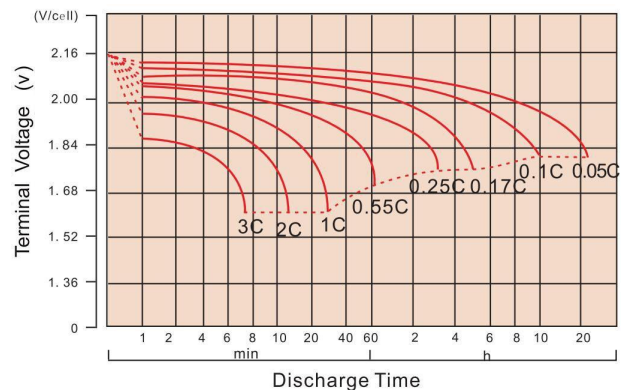
- Features:
- 1.Special polar plate design, which ensures a designed floating charge life of 15 years at 25°C (77 °F)
 - 2.Equalized current distribution, the active material is not easy to fall off
 - 3.High gas recombination efficiency
 - 4.Good deep discharge resilience performance
 - 5.No delamination phenomena in the electrolyte
 - 6.Manufactured with high-porosity

ELECTRICAL SPECIFICATION

Characteristics

Capacity	10 hour rate (25A)	250Ah
	5 hour rate (42.5A)	213Ah
	3 hour rate (62.5A)	188Ah
	1 hour rate (137.5A)	138Ah
Capacity affected by temperature	40°C (104 °F)	102%
	25°C (77 °F)	100%
	0°C (32 °F)	85%
Max Discharge Current	2500A(5 Sec)	
Short Circuit Current	4000A	
Internal Resistance	Full charged battery (25°C, 77 °F) 4mΩ	
Constant Voltage Charge	Cycle	Initial Charging Current less than 62.5A Voltage 14.1~14.4V at 25°C (77 °F) Temperature Coefficient -30mV/°C
	Standby	No limit on Initial Charging Current Voltage 13.5~13.8V at 25°C (77 °F) Temperature Coefficient -20mV/°C

Discharge curves @ 25°C (77 °F)



CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	15MIN	30MIN	1HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	440.2	270.9	155.0	70.8	55.6	47.3	31.8	26.4	13.8
1.65V	420.8	260.0	149.1	68.6	54.1	46.1	31.4	26.1	13.6
1.70V	394.1	248.7	143.5	66.7	52.7	44.8	30.9	25.7	13.4
1.75V	367.0	237.6	137.5	64.6	51.3	43.7	30.5	25.3	13.3
1.80V	338.8	227.2	132.6	62.5	49.8	42.5	30.0	25.0	13.1

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	15MIN	30MIN	1HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	769.5	492.1	291.5	135.0	106.8	91.4	62.5	52.2	27.1
1.65V	746.6	477.2	282.0	131.5	104.3	89.0	61.4	51.4	26.8
1.70V	709.6	461.1	272.9	128.3	101.8	87.0	60.6	50.7	26.4
1.75V	670.5	445.0	263.1	125.2	99.6	85.1	59.9	50.0	26.3
1.80V	627.7	429.7	254.9	121.3	97.1	83.1	59.1	49.2	26.0

Cycle service life



Trickle(or float) service life



Storage time(months)



Temperature and discharge capacity



Charging characteristic



Storage Temperature	Supplementary Charge Interval	Charge Method
≤20°C	Every 12 months	Less or 24 hours with a constant voltage of 2.3V/cell
20-30°C	Every 8 months	12-18 hours with a constant voltage of 2.45V/cell
≥30°C	Storage to be avoided	8-12 hours with a constant current of 0.05CA

APPLICATIONS

Standby Usage:

- UPS
- Emergency Lights
- Alarm Systems
- Telecommunication Systems

Cyclic Usage:

- Medical Equipments
- Electric Instruments
- Toys
- Camcorder and Solar Systems

Motive Usage:

- Golf Cars
- Wheelchairs
- Lawnmowers
- Motorcycle

(Note) All above information shall be changed without prior notice, Shimastu reserves the right to explain and update the latest information.