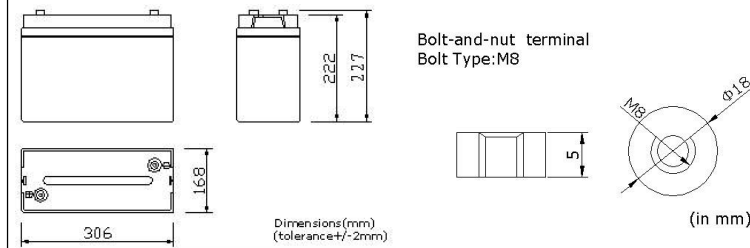


PHYSICAL SPECIFICATION

Nominal Voltage		6V
Nominal Capacity (10HR)		180Ah
Dimension	Length	306±2mm (12.05 inches)
	Width	168±2mm (6.61 inches)
	Container Height	222±2mm (8.74 inches)
	Total Height	227±2mm (8.94 inches)
Weight		Approx. 27.1 Kg ±3% (59.74lbs)
Standard Terminal		Bolt-and-nuts terminal Bolt Type: M8



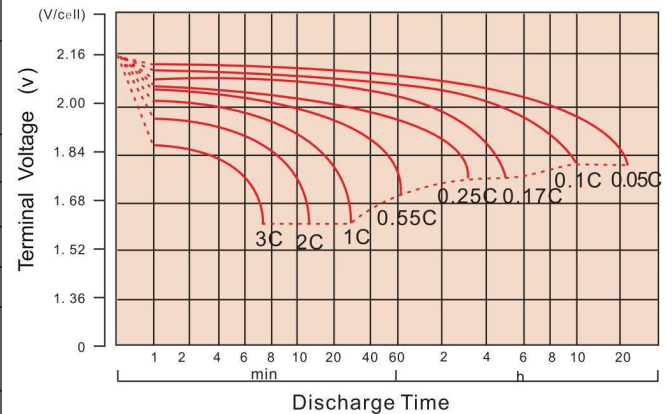
Shimastu Gel series Gel Batteries are manufactured with special separators and silica gel immobilizing the electrolyte inside the battery, it is perfect for frequent cyclic deep discharge or standby applications under harsh environments, and has a long service life.

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		Discharge curves @ 25°C (77 °F)
Capacity	10 hour rate (18A)	180Ah
	5 hour rate (30.6A)	153Ah
	3 hour rate (45A)	135Ah
	1 hour rate (99A)	99Ah
Capacity affected by temperature	40°C (104 °F)	102%
	25°C (77 °F)	100%
	0°C (32 °F)	85%
Max Discharge Current	1800A(5 Sec)	
Short Circuit Current	3330A	
Designed floating life	15 years (at 25°C)	
Internal Resistance	Full charged battery (25°C, 77 °F) 3mΩ	
Constant Voltage Charge	Cycle	Initial Charging Current less than 45A Voltage 7.05~7.20V at 25°C (77 °F) Temperature Coefficient -30mV/°C
	Standby	No limit on Initial Charging Current Voltage 6.75~6.90V at 25°C (77 °F) Temperature Coefficient -20mV/°C



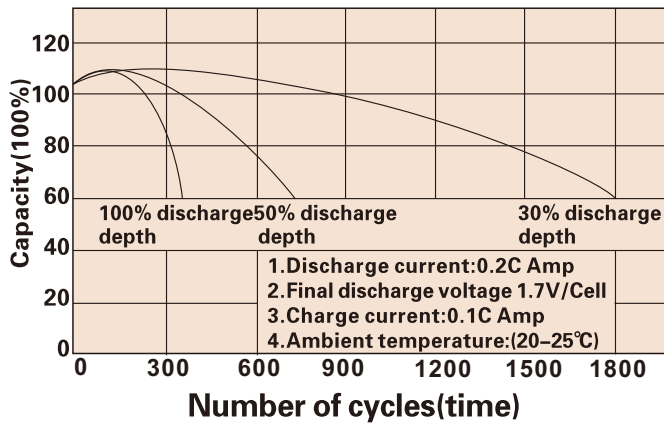
CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	429.4	317.3	195.3	111.6	50.9	34.1	22.9	19.0	9.93
1.65V	394.9	303.4	187.5	107.4	49.4	33.2	22.6	18.8	9.80
1.70V	363.6	284.2	179.3	103.3	48.0	32.3	22.2	18.5	9.65
1.75V	332.8	264.5	171.4	99.0	46.5	31.5	21.9	18.2	9.55
1.80V	301.3	244.1	163.8	95.5	45.0	30.6	21.6	18.0	9.45

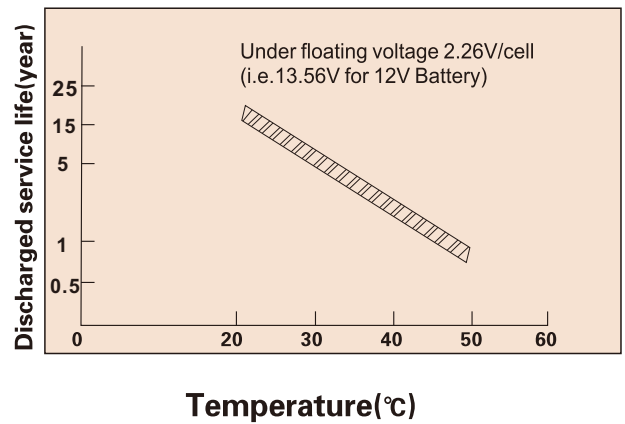
CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	710.5	554.9	354.8	209.8	97.2	65.8	45.0	37.6	19.5
1.65V	684.3	538.2	344.2	203.0	94.7	64.1	44.2	37.0	19.3
1.70V	641.6	511.7	332.3	196.5	92.4	62.6	43.6	36.5	19.0
1.75V	597.8	483.1	320.8	189.4	90.1	61.3	43.1	36.0	18.9
1.80V	550.5	452.4	309.8	183.6	87.4	59.8	42.6	35.4	18.7

Cycle service life



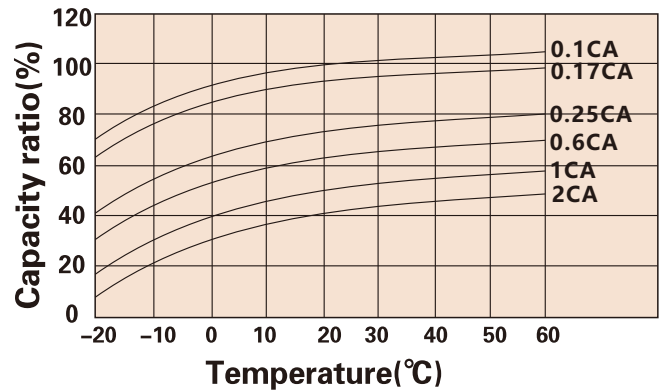
Trickle(or float) service life



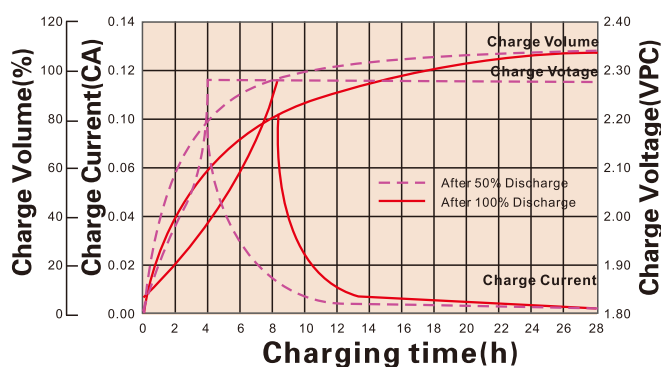
Storage time(months)



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.