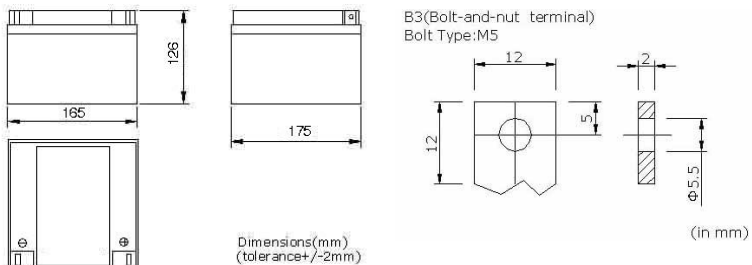


PHYSICAL SPECIFICATION



Nominal Voltage		12V
Nominal Capacity (10HR)		24Ah
Dimension	Length	175±2mm (6.89 inches)
	Width	165±2mm (6.50 inches)
	Container Height	126±2mm (4.96 inches)
	Total Height	126±2mm (4.96 inches)
Weight		Approx. 8 Kg ±3% (17.64lbs)
Standard Terminal		Bolt-and-nut terminal Bolt Type: M5



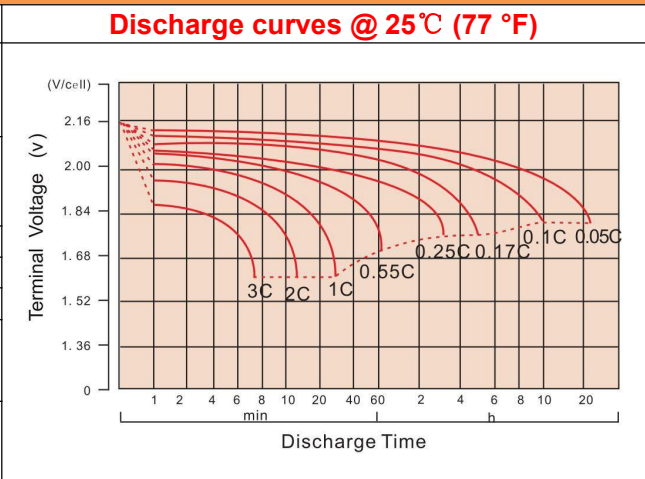
Shimastu Gel series Gel Batteries are manufactured with special separators and silica gel immobilizing the electrolyte inside the battery, it is perfect for frequent cyclic deep discharge or standby applications under harsh environments, and has a long service life.

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	(2.4A)	24Ah
	5 hour rate	(4.08A)	20Ah
	3 hour rate	(6A)	18Ah
	1 hour rate	(13.16A)	13.2Ah
Capacity affected by temperature	40°C (104 °F)		102%
	25°C (77 °F)		100%
	0°C (32 °F)		85%
Max Discharge Current	240A(5 Sec)		
Short Circuit Current	850A		
Internal Resistance	Full charged battery (25°C, 77 °F) 10mΩ		
Constant Voltage Charge	Cycle	Initial Charging Current less than 6A 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	



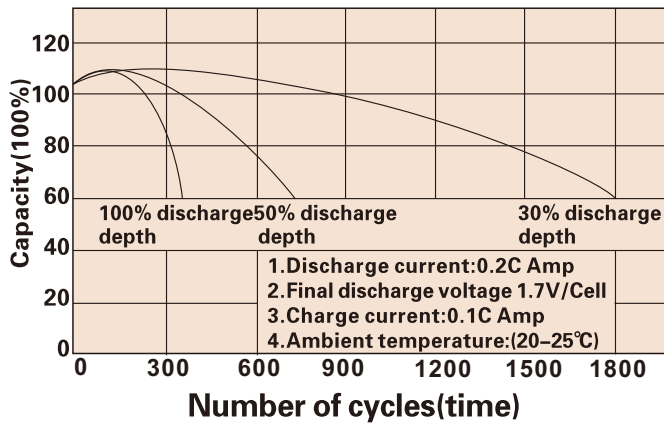
CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	86.77	61.32	44.32	26.25	14.69	6.77	4.53	2.54	1.32
1.65V	80.68	57.94	42.38	25.24	14.18	6.56	4.41	2.50	1.30
1.70V	72.80	53.35	39.69	24.15	13.67	6.39	4.30	2.46	1.28
1.75V	65.23	48.83	36.94	23.05	13.16	6.19	4.19	2.43	1.27
1.80V	57.27	44.20	34.10	22.04	12.73	6.00	4.08	2.40	1.26

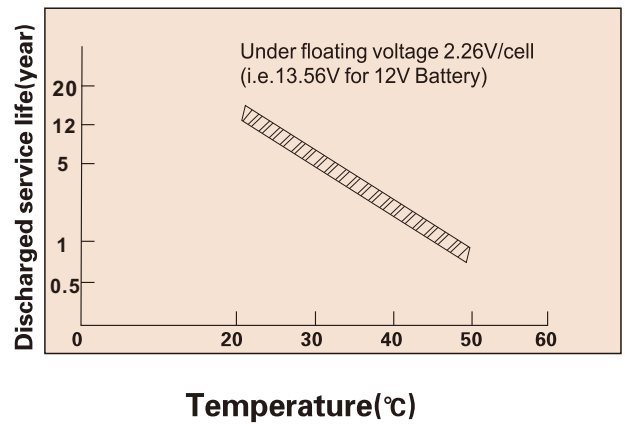
CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	143.8	104.2	77.48	47.70	27.62	12.91	8.75	5.00	2.58
1.65V	135.3	100.4	75.18	46.33	26.81	12.58	8.52	4.91	2.55
1.70V	124.9	94.15	71.48	44.76	26.00	12.29	8.34	4.84	2.52
1.75V	114.3	87.70	67.48	43.18	25.19	11.99	8.16	4.80	2.51
1.80V	102.5	80.77	63.17	41.69	24.47	11.65	7.98	4.72	2.50

Cycle service life



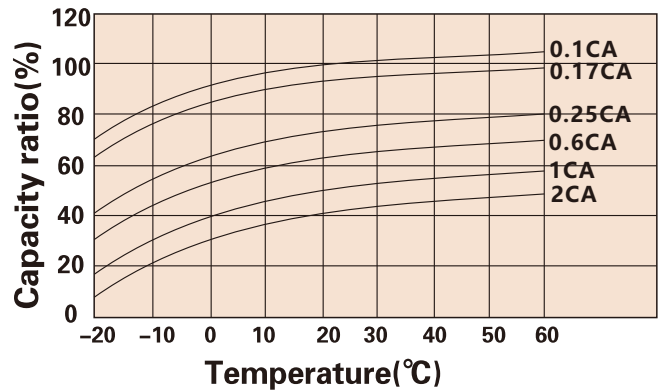
Trickle(or float) service life



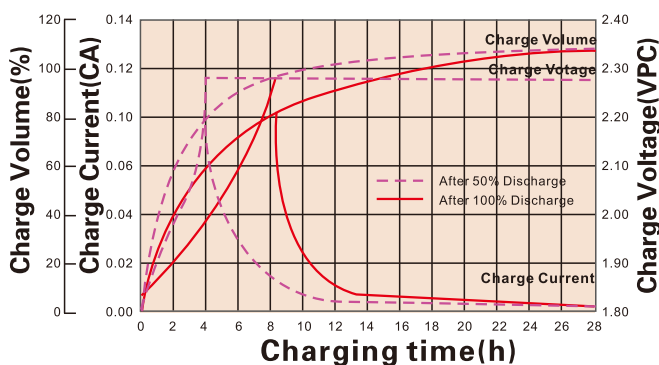
Storage time(months)



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.