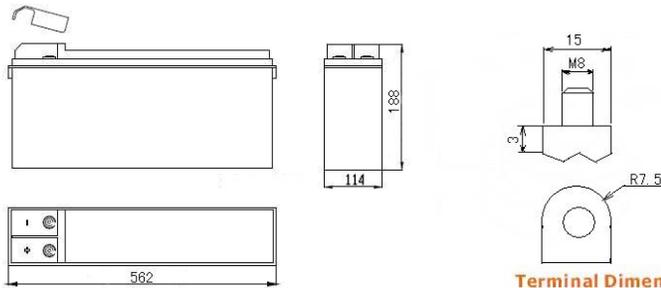


PHYSICAL SPECIFICATION

Nominal Voltage		12V
Nominal Capacity (10HR)		75Ah
Dimension	Length	562±2mm (22.13 inches)
	Width	114±2mm (4.48 inches)
	Container Height	188±2mm (7.40 inches)
	Total Height	188±2mm (7.40 inches)
Weight		Approx. 26.0Kg ±3% (57.3lbs)
Standard Terminal		Bolt-and-nut terminal Bolt Type: M6



Terminal Dimensions

Shimastu FA series Front Access Backup Batteries are specially designed for telecommunications industry with 15 years design life in float service, With terminals at the front, these batteries are easy to be installed and maintained. Dimensions of the terminals fit in a 19-inch and 23-inch standard power cabinet.

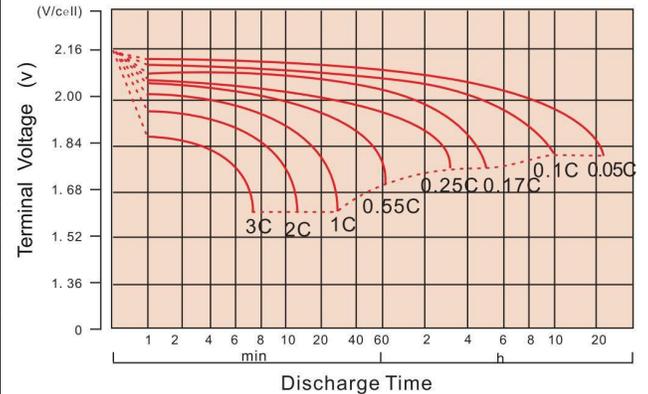
Features:

1. Designed floating charge life of 15 years at 25°C (77°F).
2. Extremely low self-discharge by using high pure material, allowing for a long period of rest
3. Adopting a new & High quality Adsorbed glass fiber separators, with a gas recombination efficiency of 99%, no need for replenishment with water
4. PbCaSn alloy for plate grids, suitable for high-power discharge
5. A narrow and high structure with good heat dissipation performance & high reliability

ELECTRICAL SPECIFICATION

Characteristics		
Capacity	20 hour rate	(3.98A)
	10 hour rate	(7.5A)
	5 hour rate	(12.8A)
	3 hour rate	(18.8A)
	1 hour rate	(41.3A)
Capacity affected by temperature	45°C (117 °F)	105%
	40°C (104 °F)	102%
	25°C (77 °F)	100%
	0°C (32 °F)	85%
Max. Discharge Current	900A (5 sec)	
Short Circuit Current	1400A	
Internal Resistance	Full charged battery (25°C, 77 °F) 6mΩ	
Designed life	≥15 years (floating) at 25°C (77 °F)	
Constant Voltage Charge	Cycle	Initial Charging Current less than 18.7A 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)



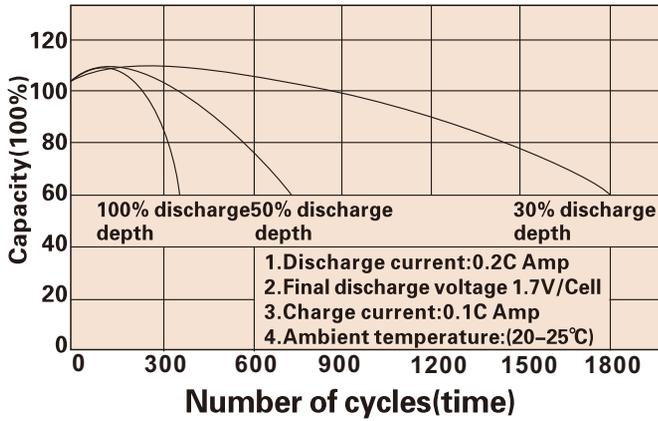
CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	179.9	136.6	81.5	46.5	21.2	14.2	9.54	7.95	4.13
1.65V	170.0	130.6	78.2	44.7	20.6	13.8	9.41	7.84	4.09
1.70V	156.5	122.3	74.8	43.0	20.0	13.5	9.27	7.69	4.02
1.75V	143.2	113.8	71.5	41.3	19.4	13.1	9.14	7.59	3.98
1.80V	129.7	105.2	68.4	39.8	18.8	12.8	8.99	7.50	3.93

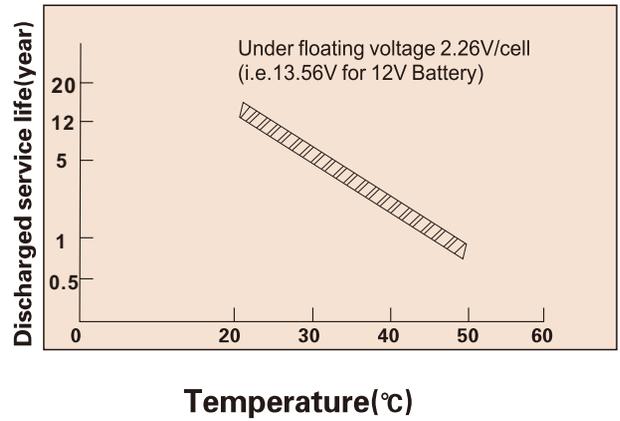
CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	305.7	238.8	148.1	87.4	40.5	27.4	18.8	15.7	8.07
1.65V	294.5	231.7	143.7	84.6	39.5	26.7	18.4	15.4	8.00
1.70V	276.0	220.3	138.7	81.9	38.5	26.1	18.2	15.1	7.92
1.75V	257.3	208.0	133.9	78.9	37.6	25.5	18.0	15.0	7.83
1.80V	236.9	194.8	129.4	76.5	36.4	24.9	17.7	14.8	7.80

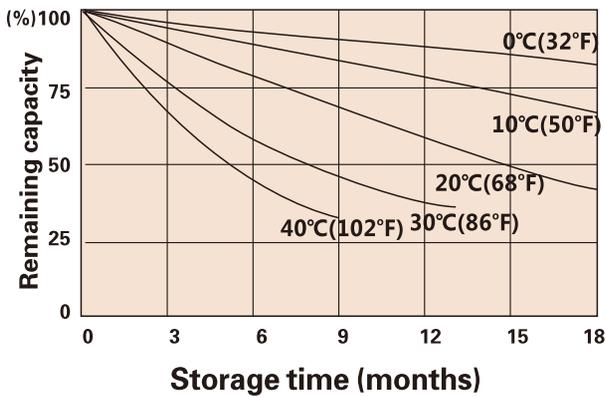
Cycle service life



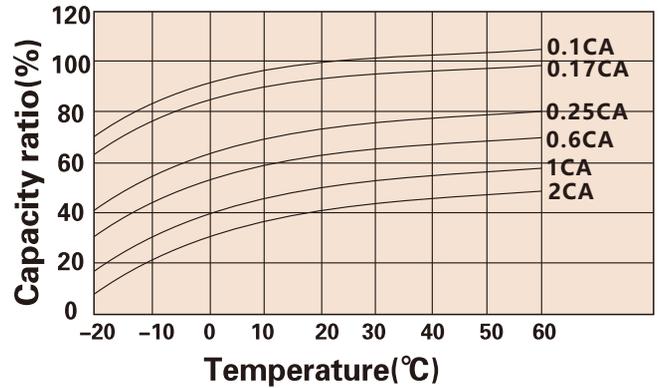
Trickle(or float) service life



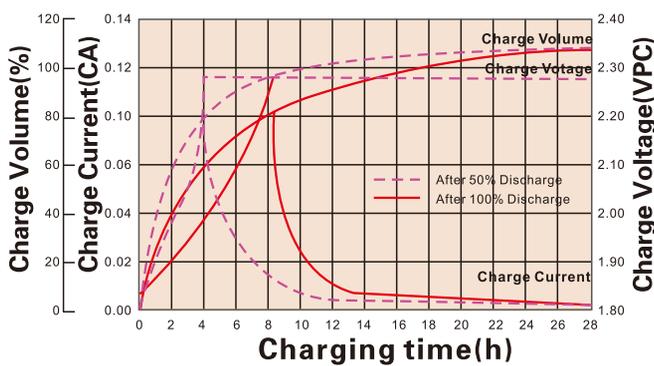
Storage time(months)



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.

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