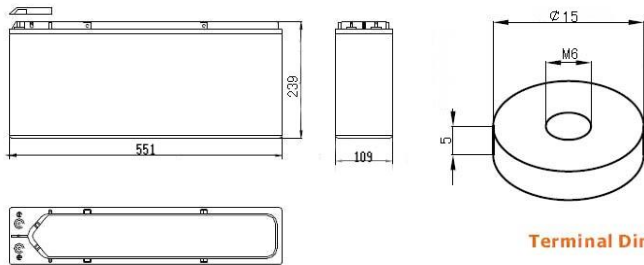


PHYSICAL SPECIFICATION

Nominal Voltage		12V
Nominal Capacity (10HR)		120Ah
Dimension	Length	551±2mm (21.69 inches)
	Width	109±2mm (4.29 inches)
	Container Height	239±2mm (9.41 inches)
	Total Height	239±2mm (9.41 inches)
Weight		Approx. 38Kg ±3% (83.8lbs)
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.

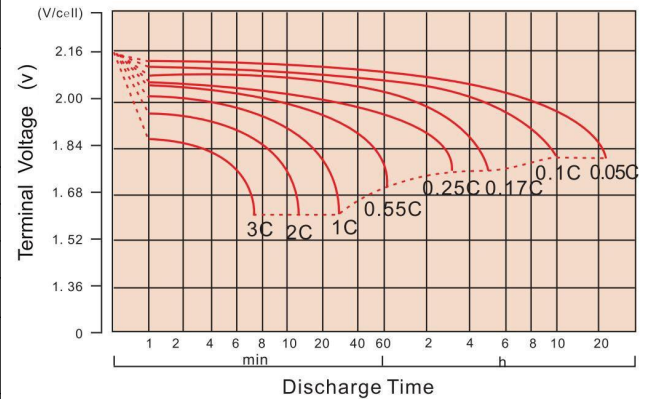
Features:

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	(6.36A) 127Ah
	10 hour rate	(12A) 120Ah
	5 hour rate	(20.4A) 102Ah
	3 hour rate	(30A) 90Ah
	1 hour rate	(66A) 66Ah
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	1200A (5 sec)	
Short Circuit Current	2160A	
Internal Resistance	Full charged battery (25°C, 77 °F) 4.3mΩ	
Designed life	≥15 years (floating) at 25°C (77 °F)	
Constant Voltage Charge	Cycle	Initial Charging Current less than 30A 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	280.6	218.6	130.4	74.4	34.0	22.7	15.3	12.7	6.60
1.65V	265.2	209.0	125.2	71.6	32.9	22.1	15.1	12.5	6.55
1.70V	244.1	195.6	119.7	68.9	32.0	21.5	14.8	12.3	6.44
1.75V	223.4	182.1	114.5	66.0	31.0	21.0	14.6	12.2	6.36
1.80V	202.3	168.3	109.4	63.6	30.0	20.4	14.4	12.0	6.29

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	476.9	382.1	237.0	139.9	64.8	43.9	30.0	25.1	12.9
1.65V	459.4	370.7	230.0	135.3	63.1	42.7	29.5	24.6	12.8
1.70V	430.6	352.5	221.9	131.0	61.6	41.8	29.1	24.2	12.7
1.75V	401.3	332.9	214.2	126.3	60.1	40.9	28.7	24.0	12.5
1.80V	369.5	311.6	207.0	122.4	58.2	39.9	28.4	23.6	12.5

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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