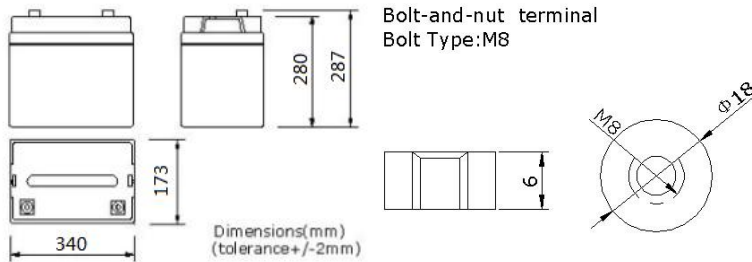


PHYSICAL SPECIFICATION



Nominal Voltage		12V
Nominal Capacity (10HR)		134Ah
Dimension	Length	340±2mm (13.39 inches)
	Width	173±2mm (6.81 inches)
	Container Height	280±2mm (11.02 inches)
	Total Height	287±2mm (11.30 inches)
Weight		Approx. 43.5Kg ±3% (95.90lbs)
Standard Terminal		Bolt-and-nuts terminal Bolt Type: M8



Shimastu NP series AGM VRLA Batteries have been developed as general purpose batteries, they're valve-regulated lead acid batteries with high quality Absorbed Glass Mat(AGM) separators & high purity raw materials, featured by perfectly good performance and reliable standby service life.

Features:

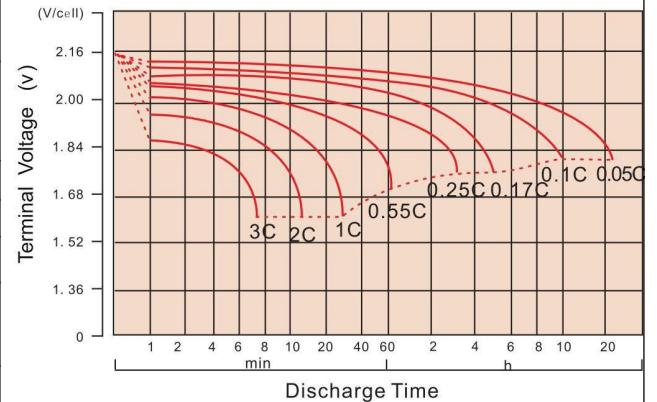
- 1.Non-spillable
- 2.Sealed and Maintenance-free Operation
- 3.High Quality and High Reliability
- 4.Less gassing,low Self-discharge
- 5.Low internal resistance
- 6.Long design life up to 10 years in float service at 25°C (77 °F)

ELECTRICAL SPECIFICATION

Characteristics

Capacity	10 hour rate	(13.4A)	134Ah
	5 hour rate	(22.8A)	114Ah
	3 hour rate	(33.5A)	100.5Ah
	1 hour rate	(73.7A)	73.7Ah
Capacity affected by temperature	40°C (104 °F)		102%
	25°C (77 °F)		100%
	0°C (32 °F)		85%
Max Discharge Current	1340A(5 Sec)		
Short Circuit Current	2480A		
Internal Resistance	Full charged battery (25°C, 77 °F) 3mΩ		
Constant Voltage Charge	Cycle	Initial Charging Current less than 33.5A Voltage 14.1~14.4V at 25°C (77 °F) Temperature Coefficient -18mV/°C	
	Standby	No limit on Initial Charging Current Voltage 13.5~13.8V at 25°C (77 °F) Temperature Coefficient -18mV/°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	319.7	245.8	146.7	83.1	37.9	25.4	17.0	14.2	7.39
1.65V	294.0	235.0	140.8	79.9	36.7	24.7	16.8	14.0	7.29
1.70V	270.6	220.1	134.6	76.9	35.7	24.0	16.6	13.8	7.19
1.75V	247.8	204.9	128.6	73.7	34.6	23.4	16.3	13.6	7.11
1.80V	224.3	189.2	123.0	71.1	33.5	22.8	16.1	13.4	7.04

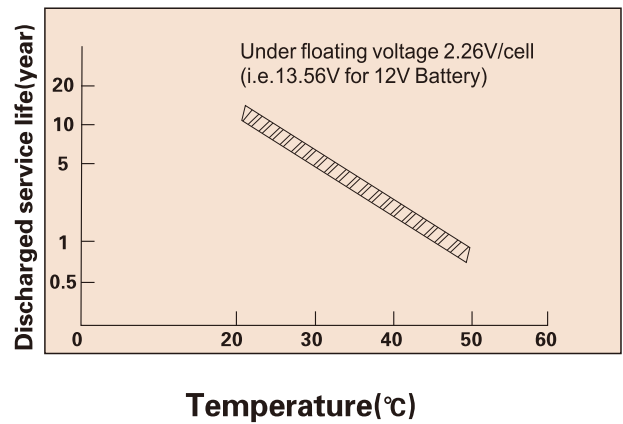
CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	528.9	429.7	266.4	156.2	72.3	49.0	33.5	28.0	14.5
1.65V	509.5	416.8	258.5	151.1	70.5	47.7	32.9	27.6	14.3
1.70V	477.6	396.2	249.6	146.3	68.8	46.6	32.5	27.2	14.2
1.75V	445.1	374.2	240.8	141.0	67.1	45.6	32.1	26.8	14.1
1.80V	409.8	350.5	232.7	136.6	65.0	44.5	31.7	26.4	13.9

Cycle service life



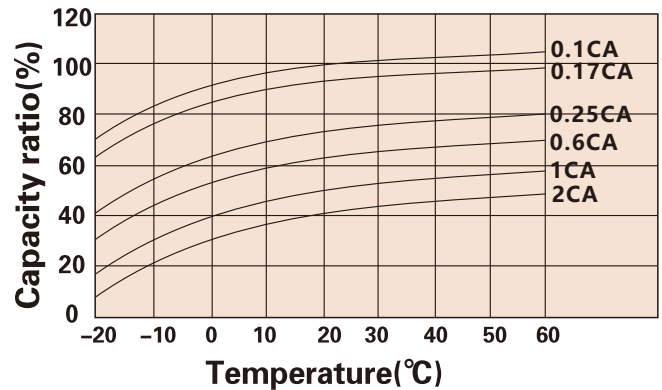
Trickle(or float) service life



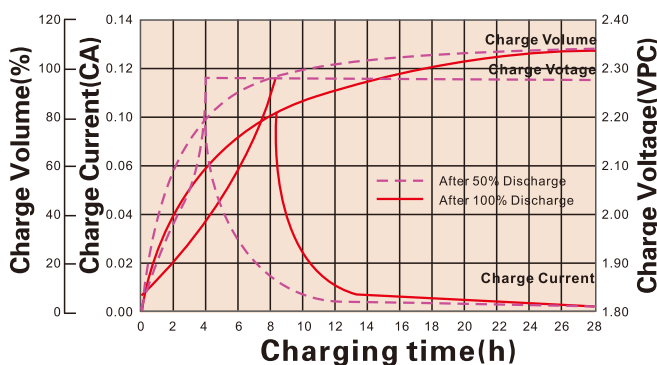
Storage time(months)



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.