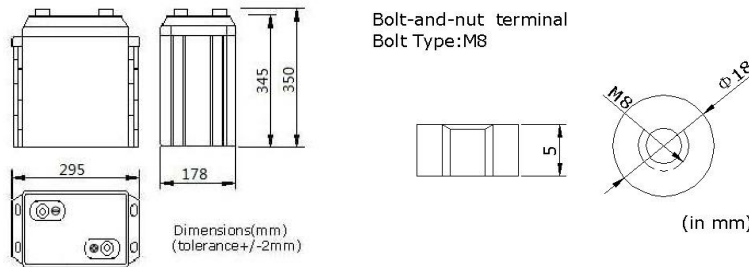


### PHYSICAL SPECIFICATION

Nominal Voltage		6V	
Nominal Capacity (10HR)		300Ah	
Dimension	Length	295±2mm	(11.61 inches)
	Width	178±2mm	(7.01 inches)
	Container Height	345±2mm	(13.58 inches)
	Total Height	350±2mm	(13.78 inches)
Weight		Approx. 46 Kg ±3% ( 101.41lbs)	
Standard Terminal		Bolt-and-nut terminal Bolt Type: M8	



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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:**

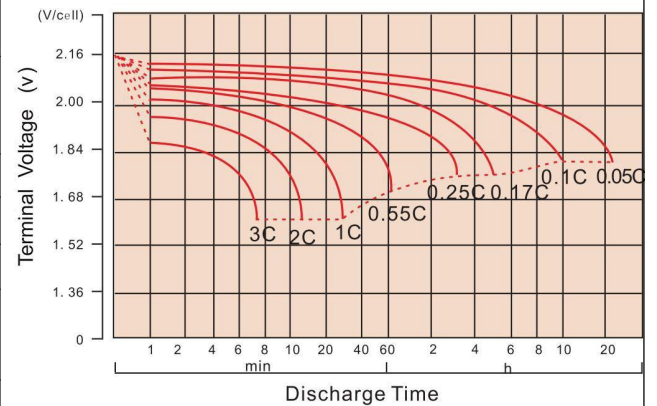
- 1.Non-spillable
- 2.Sealed and Maintenance-free Operation
- 3.High Quality and High Reliability
- 4.Less gassing,low Self-discharge
- 5.Low internal resistance
- 6.Long design life up to 10 years in float service at 25°C (77 °F)

### ELECTRICAL SPECIFICATION

#### Characteristics

#### Discharge curves @ 25°C (77 °F)

Capacity	10 hour rate (30A)	300Ah
	5 hour rate (51A)	255Ah
	3 hour rate (75A)	225Ah
	1 hour rate (165A)	165Ah
Capacity affected by temperature	40°C (104 °F)	102%
	25°C (77 °F)	100%
	0°C (32 °F)	85%
Max Discharge Current	3000A(5 Sec)	
Short Circuit Current	4500A	
Internal Resistance	Full charged battery (25°C,77 °F) 3mΩ	
Constant Voltage Charge	Cycle	Initial Charging Current less than 75A Voltage 7.05~7.2V at 25°C (77 °F) Temperature Coefficient -15mV/°C
	Standby	No limit on Initial Charging Current Voltage 6.75~6.9V at 25°C (77 °F) Temperature Coefficient -10mV/°C



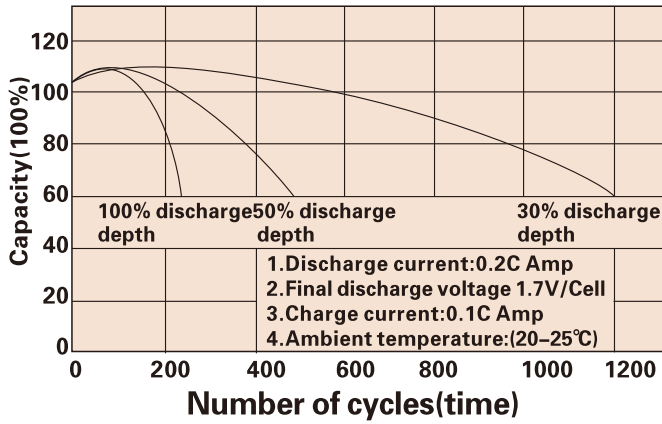
#### CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	15MIN	30MIN	1HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	515.0	318.6	186.0	84.9	66.7	56.8	38.1	31.7	16.5
1.65V	492.4	305.8	179.0	82.3	65.0	55.3	37.6	31.3	16.3
1.70V	461.2	292.4	172.2	80.0	63.2	53.8	37.1	30.8	16.1
1.75V	429.4	279.4	165.0	77.5	61.6	52.5	36.6	30.4	15.9
1.80V	396.4	267.2	159.1	75.0	59.8	51.0	36.0	30.0	15.8

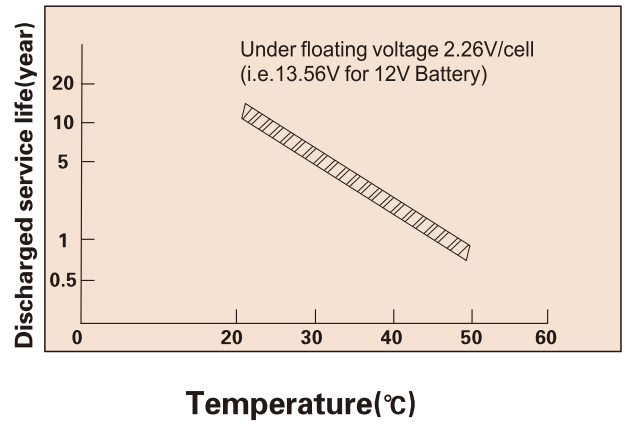
#### CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	15MIN	30MIN	1HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	900.4	578.7	349.7	162.0	128.2	109.7	75.0	62.6	32.5
1.65V	873.6	561.2	338.3	157.8	125.2	106.8	73.7	61.7	32.1
1.70V	830.4	542.3	327.4	154.0	122.2	104.4	72.7	60.9	31.7
1.75V	784.5	523.3	315.7	150.2	119.5	102.1	71.8	60.0	31.5
1.80V	734.5	505.4	305.9	145.6	116.5	99.7	71.0	59.0	31.2

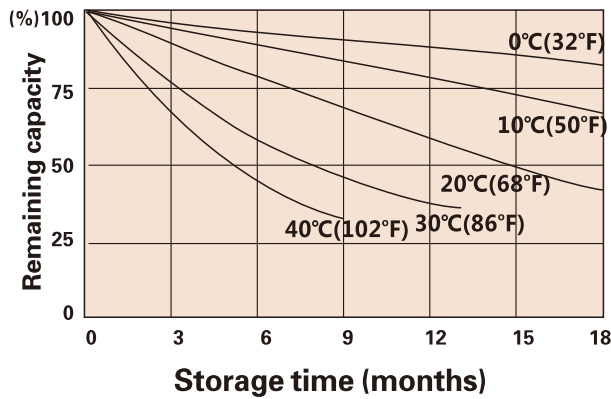
### Cycle service life



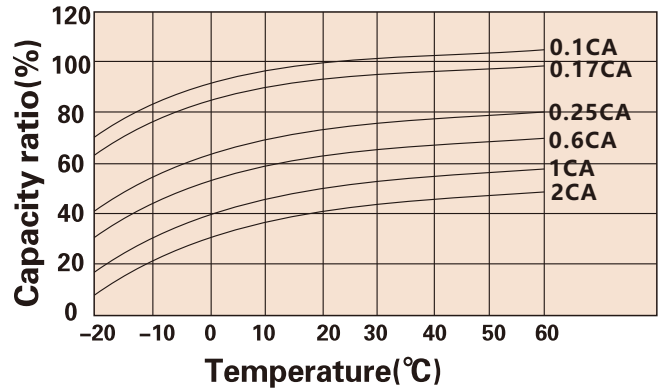
### Trickle(or float) service life



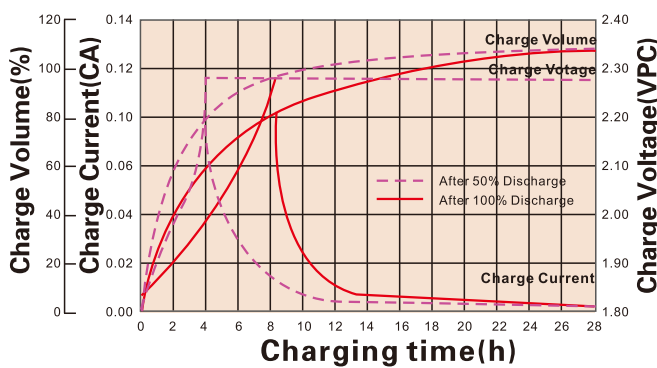
### Storage time(months)



### 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.