

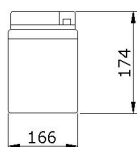
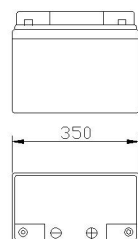


NP80-12(12V80AH)



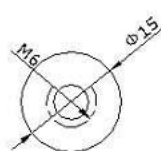
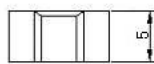
PHYSICAL SPECIFICATION

Nominal Voltage		12V
Nominal Capacity (10HR)		80Ah
Dimension	Length	350±2mm (13.78 inches)
	Width	166±2mm (6.54 inches)
	Container Height	174±2mm (6.85 inches)
	Total Height	174±2mm (6.85 inches)
Weight		Approx. 22.8 Kg ±3% (50.26lbs)
Standard Terminal		Bolt-and-nut terminal Bolt Type: M6



Dimensions(mm)
(tolerance+/-2mm)

B3(Bolt-and-nut terminal)
Bolt Type: M6



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:

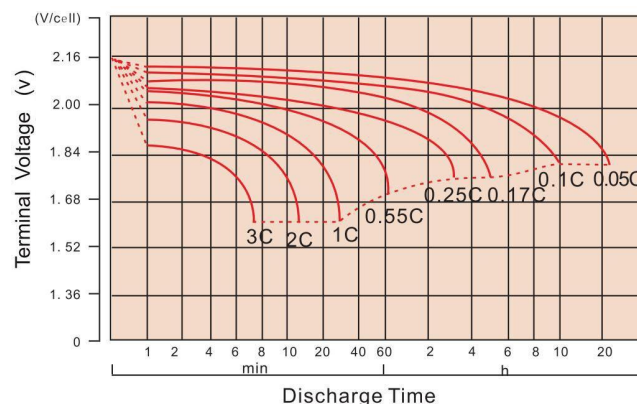
- 1.Non-spillable
- 2.Sealed and Maintenance-free Operation
- 3.High Quality and High Reliability
- 4.Less gassing,low Self-discharge
- 5.Low internal resistance
- 6.Long design life up to 10 years in float service at 25°C (77 °F)

ELECTRICAL SPECIFICATION

Characteristics

Capacity	10 hour rate (8A)	80Ah
	5 hour rate (13.6A)	68Ah
	3 hour rate (20A)	60Ah
	1 hour rate (44A)	44Ah
Capacity affected by temperature	40°C (104 °F)	102%
	25°C (77 °F)	100%
	0°C (32 °F)	85%
Max Discharge Current		800A(5 Sec)
Short Circuit Current		1840A
Internal Resistance		Full charged battery (25°C, 77 °F) 5.4mΩ
Constant Voltage Charge	Cycle	Initial Charging Current less than 20A 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)



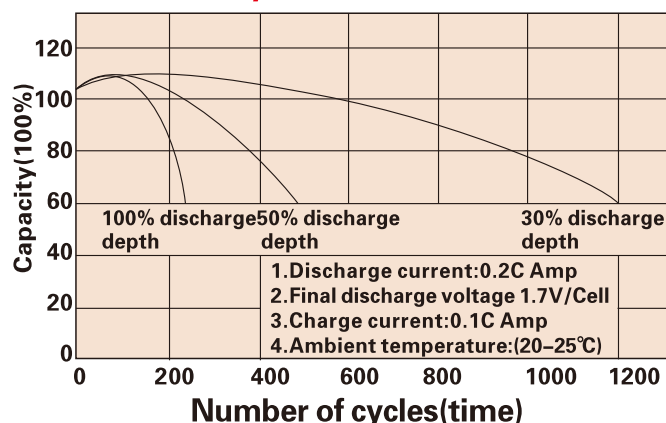
CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	192.3	144.8	86.5	49.6	22.6	15.2	10.2	8.46	4.41
1.65V	181.7	138.4	83.2	47.7	21.9	14.7	10.0	8.35	4.35
1.70V	167.3	129.6	79.6	45.9	21.3	14.4	9.89	8.22	4.29
1.75V	153.1	120.7	75.8	44.0	20.7	14.0	9.75	8.10	4.24
1.80V	138.6	111.4	72.5	42.4	20.0	13.6	9.59	8.00	4.20

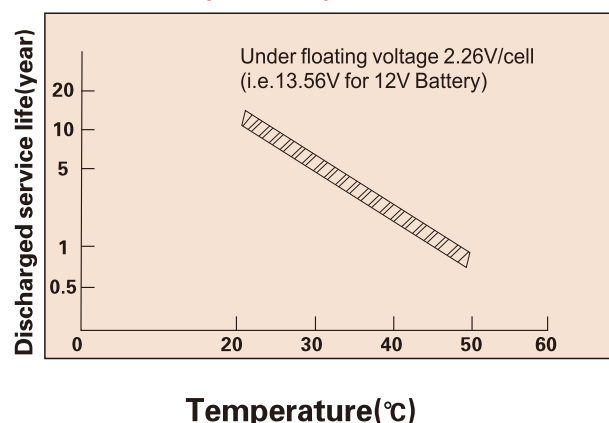
CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	326.9	253.1	157.1	93.3	43.2	29.3	20.0	16.7	8.67
1.65V	314.8	245.6	152.7	90.2	42.1	28.5	19.7	16.5	8.56
1.70V	295.3	233.5	147.5	87.3	41.1	27.8	19.4	16.2	8.45
1.75V	275.0	220.4	142.0	84.2	40.1	27.2	19.2	16.0	8.37
1.80V	253.3	206.4	137.1	81.6	38.8	26.6	18.9	15.7	8.32

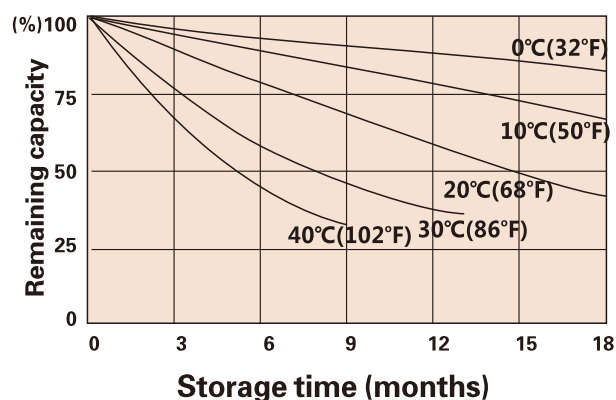
Cycle service life



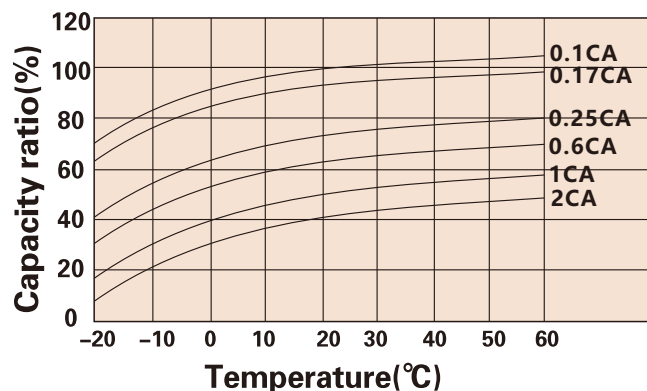
Trickle(or float) service life



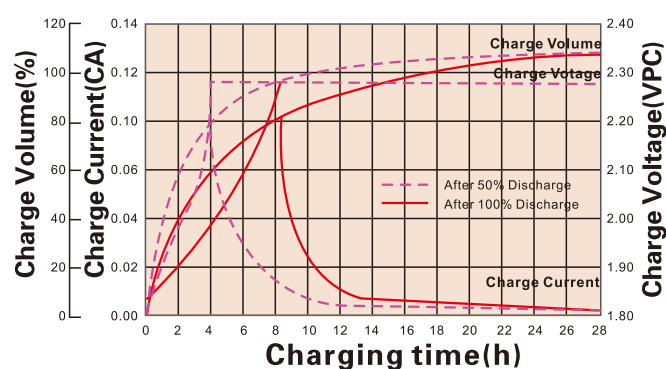
Storage time(months)



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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