

PHYSICAL SPECIFICATION

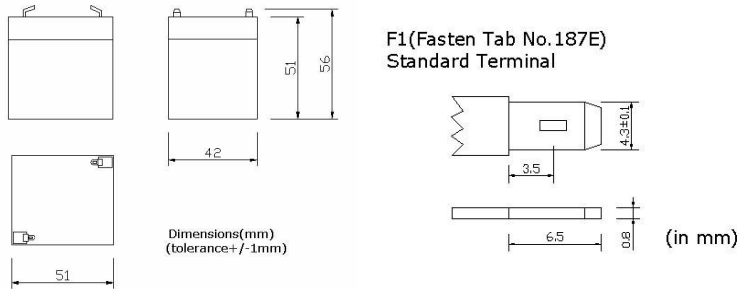


Nominal Voltage		6V	
Nominal Capacity (20HR)		1Ah	
Dimension	Length	51±1mm	(2.01 inches)
	Width	42±1mm	(1.65 inches)
	Container Height	51±1mm	(2.01 inches)
	Total Height	56±1mm	(2.20 inches)
Weight		Approx. 0.25 Kg ±3% (0.55lbs)	
Standard Terminal		Fasten Tab No.187E (F1)	

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

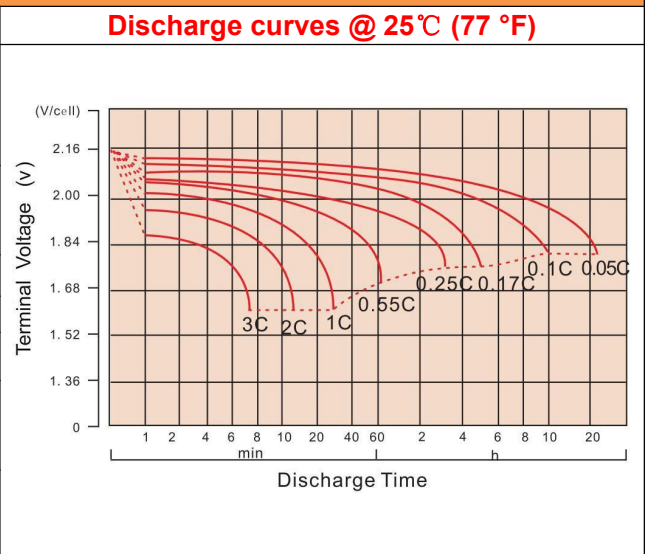
Features:

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 6 years in float service at 25°C (77 °F)



ELECTRICAL SPECIFICATION

Characteristics			
Capacity	20 hour rate (0.05A)		1Ah
	10 hour rate (0.094A)		0.94Ah
	5 hour rate (0.17A)		0.85Ah
	3 hour rate (0.25A)		0.75Ah
	1 hour rate (0.55A)		0.55Ah
Capacity affected by temperature	40°C (104 °F)		102%
	25°C (77 °F)		100%
	0°C (32 °F)		85%
Max Discharge Current	10A (5 Sec)		
Short Circuit Current	55A		
Internal Resistance	Full charged battery (25°C, 77 °F) 35mΩ		
Constant Voltage Charge	Cycle	Initial Charging Current less than 0.3A Voltage 7.20~7.50V at 25°C (77 °F) Temperature Coefficient -15mV/°C	
	Standby	No limit on Initial Charging Current Voltage 6.75~6.90V at 25°C (77 °F) Temperature Coefficient -10mV/°C	



CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	3.792	2.679	1.935	1.106	0.612	0.282	0.187	0.098	0.052
1.65V	3.528	2.532	1.851	1.063	0.591	0.273	0.183	0.098	0.052
1.70V	3.183	2.331	1.734	1.020	0.571	0.265	0.178	0.096	0.051
1.75V	2.852	2.135	1.614	0.975	0.550	0.258	0.174	0.095	0.050
1.80V	2.505	1.932	1.490	0.931	0.530	0.250	0.170	0.094	0.049

CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	6.286	4.554	3.381	2.010	1.150	0.536	0.360	0.194	0.103
1.65V	5.915	4.388	3.283	1.950	1.116	0.524	0.354	0.191	0.101
1.70V	5.459	4.114	3.123	1.891	1.085	0.510	0.345	0.189	0.100
1.75V	5.000	3.834	2.948	1.826	1.053	0.499	0.339	0.188	0.099
1.80V	4.485	3.531	2.760	1.761	1.019	0.485	0.333	0.185	0.098

Cycle service life



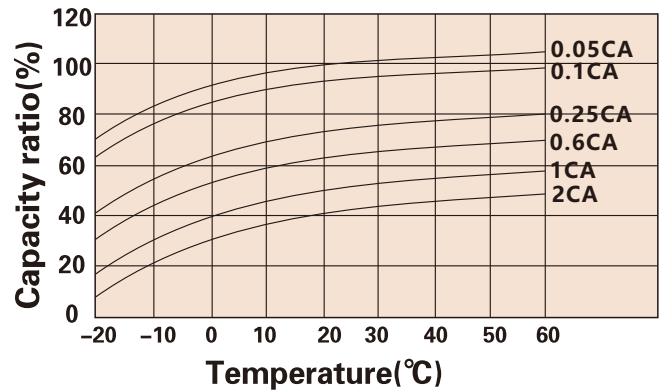
Trickle(or float) service life



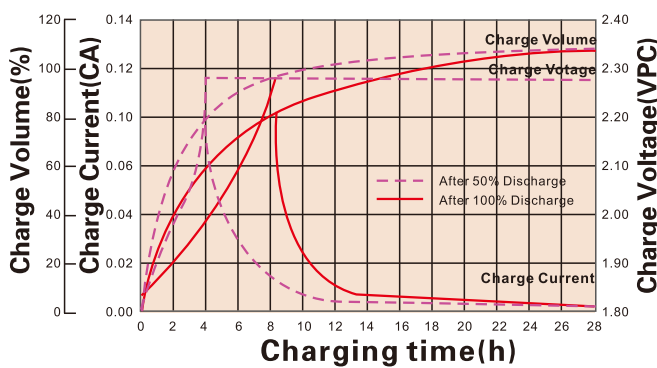
Storage time(months)



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.