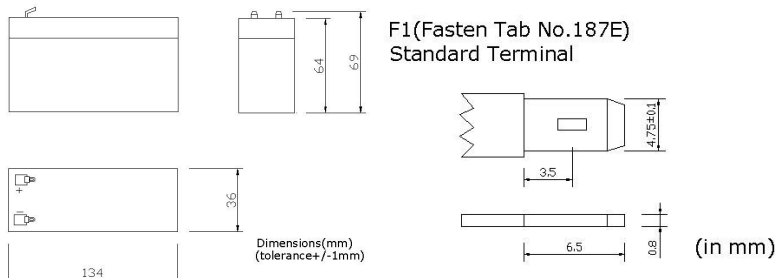


PHYSICAL SPECIFICATION

Nominal Voltage Nominal Capacity (20HR)		8V 3Ah	
Dimension	Length	134±1mm	(5.28 inches)
	Width	36±1mm	(1.42 inches)
	Container Height	64±1mm	(2.52 inches)
	Total Height	69±1mm	(2.72 inches)
Weight		Approx. 0.84 Kg ±3% (1.85lbs)	
Standard Terminal		Fasten Tab No.187E (F1)	



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.

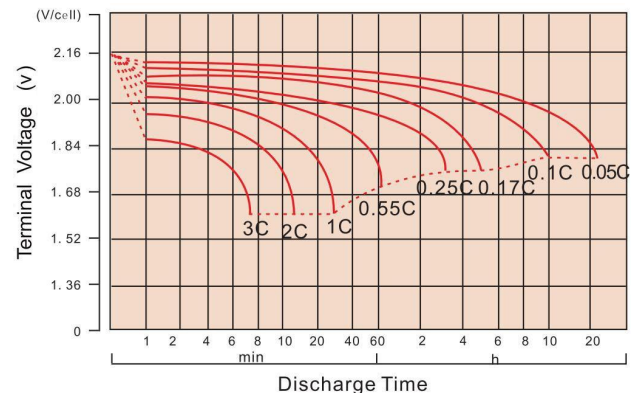
Features:

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

ELECTRICAL SPECIFICATION

Characteristics			
Capacity	20 hour rate	(0.15A)	3.0Ah
	10 hour rate	(0.282A)	2.8Ah
	5 hour rate	(0.51A)	2.6Ah
	3 hour rate	(0.75A)	2.3Ah
	1 hour rate	(1.65A)	1.7Ah
Capacity affected by temperature	40°C (104 °F)		102%
	25°C (77 °F)		100%
	0°C (32 °F)		85%
Max Discharge Current		30A(5 Sec)	
Short Circuit Current		155A	
Internal Resistance		Full charged battery (25°C, 77 °F) 25mΩ	
Constant Voltage Charge	Cycle	Initial Charging Current less than 0.9A Voltage 9.6~10V at 25°C (77 °F) Temperature Coefficient -18mV/°C	
	Standby	No limit on Initial Charging Current Voltage 9~9.2V at 25°C (77 °F) Temperature Coefficient -18mV/°C	

Discharge curves @ 25°C (77 °F)



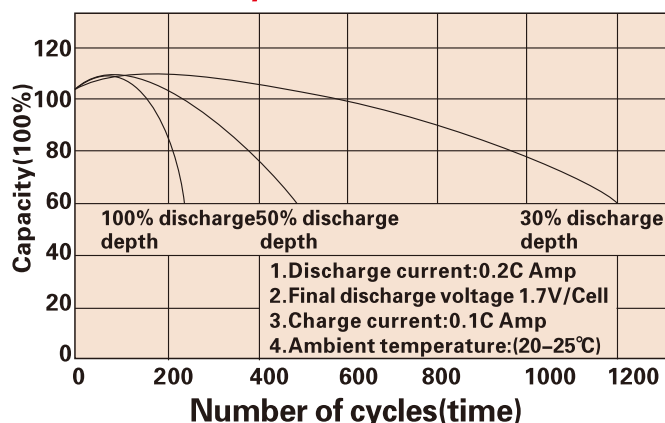
CONSTANT CURRENT DISCHARGE RATING A@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	11.37	8.045	5.815	3.339	1.832	0.847	0.565	0.295	0.157
1.65V	10.57	7.602	5.559	3.205	1.770	0.819	0.552	0.293	0.155
1.70V	9.535	6.997	5.206	3.065	1.712	0.798	0.538	0.288	0.152
1.75V	8.544	6.406	4.846	2.928	1.650	0.773	0.524	0.284	0.150
1.80V	7.503	5.799	4.475	2.799	1.588	0.750	0.510	0.282	0.148

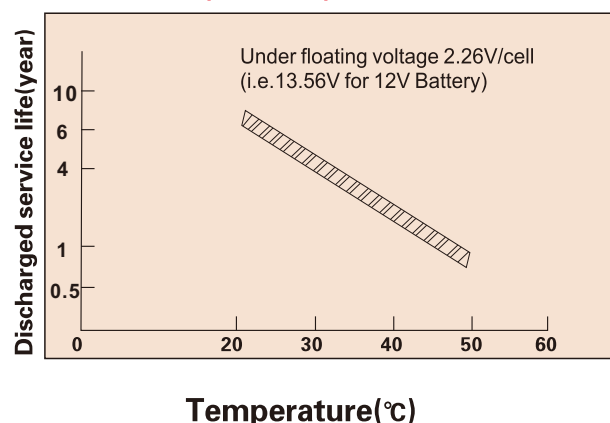
CONSTANT POWER DISCHARGE RATING WATT PER CELL@25°C

F.V/TIME	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	18.84	13.67	10.16	6.066	3.445	1.615	1.091	0.581	0.306
1.65V	17.72	13.17	9.863	5.884	3.346	1.571	1.066	0.574	0.302
1.70V	16.35	12.34	9.376	5.681	3.256	1.536	1.043	0.567	0.300
1.75V	14.97	11.50	8.852	5.485	3.156	1.497	1.020	0.560	0.295
1.80V	13.43	10.59	8.289	5.296	3.053	1.456	0.996	0.553	0.293

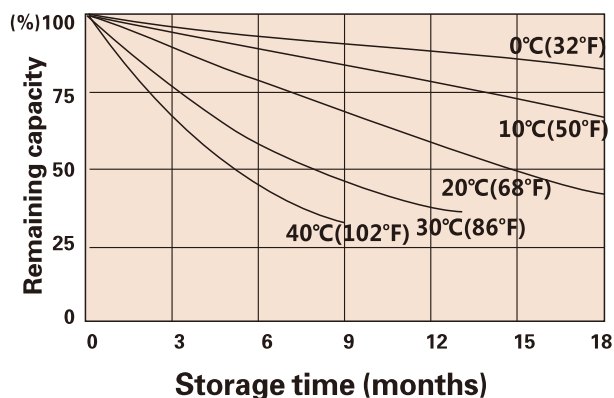
Cycle service life



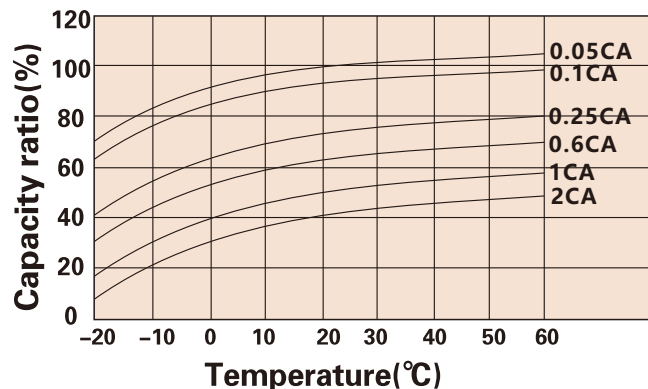
Trickle(or float) service life



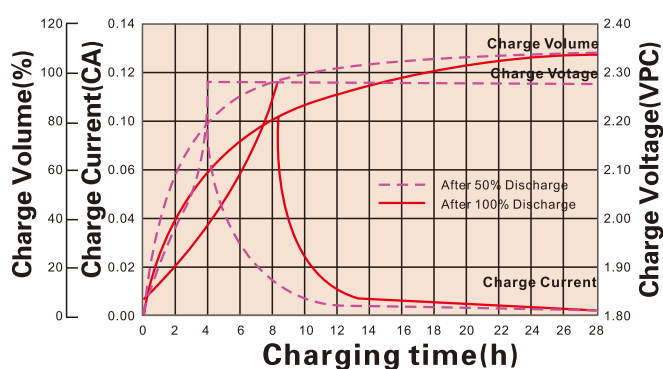
Storage time(months)



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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