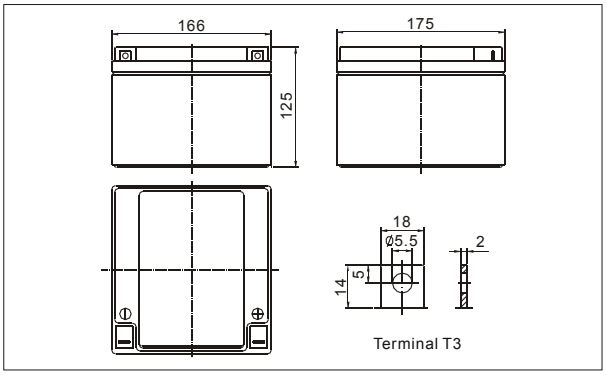
Battery picture

Outer dimensions (mm)



The +Energy sealed lead-acid rechargeable battery (VRLA battery) is leak-proof and maintenance free. The Superiority of VRLA battery is derived from its uniquely efficient oxygen recombination technology. The oxygen evolved from the positive plates diffuses through the micro porous glass fiber mat to the negative plates where it is changed back to water by recombination reaction, eliminating the need for water addition .The result is a maintenance free battery.

Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General Features

- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

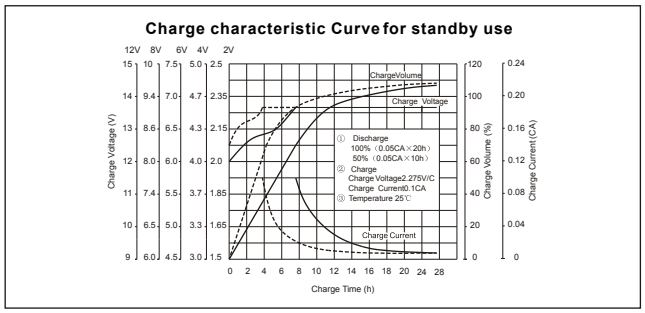
Application

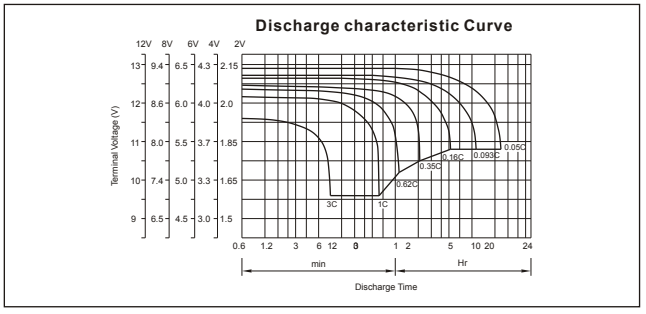
- Alarm System
- Medical Equipment
- Cable Television
- Control Equipment
- UPS
- Communication Equipment
- Toys
- Emergency power System
- Power Tools
- Security System

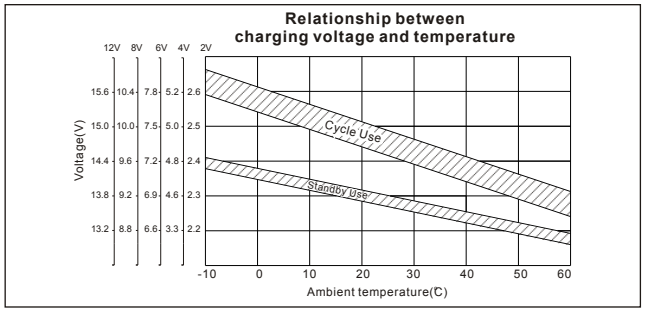
Specifications

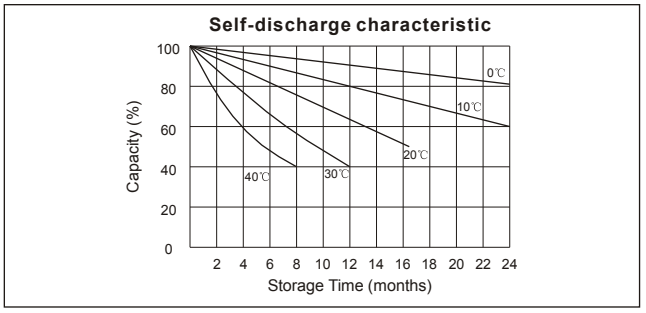
Nominal Voltage		12V
Capacity (20 hr 25℃)		26Ah
Design Life		3 Years
Dimensions	Length	166mm (6.54 inch)
	Width	175mm (6.89 inch)
	Height	125mm (4.92 inch)
	Total Height	125mm (4.92 inch)
Approx.Weight		8.2 kg
Capacity 25℃(77℉)	20 hr rate	26Ah
	10 hr rate	22.32Ah
	5 hr rate	20.40Ah
	1 hr rate	14.4Ah
Internal Resistance (Full charged Battery at 25℃(77℉)		12mΩ

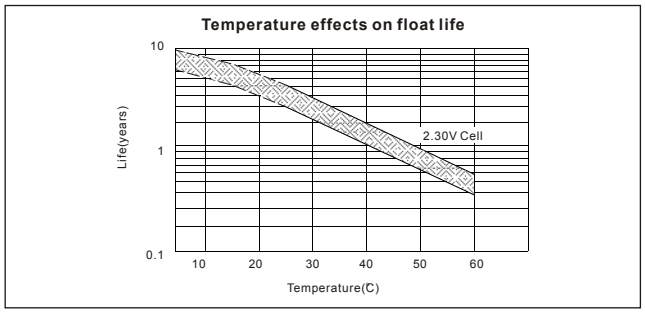
Capacity affected by Temperature (20hr)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-Discharge at 25℃	3 month	Remaining capacity: 91%
	6 month	Remaining capacity: 82%
	12 month	Remaining capacity: 65%
Normal operating temperature		25℃ ±3℃(77℉ ±5℉)
Operating temperature range		-15℃~50℃(5~122℉)
Float charging voltage(25℃)		13.6 to13.8V
Cyclic charging voltage(25℃)		14.5 to 14.9V
Maximum chaging current		9.6A
Terminal material		Copper
Maximum Dischage current		360A(5sec)

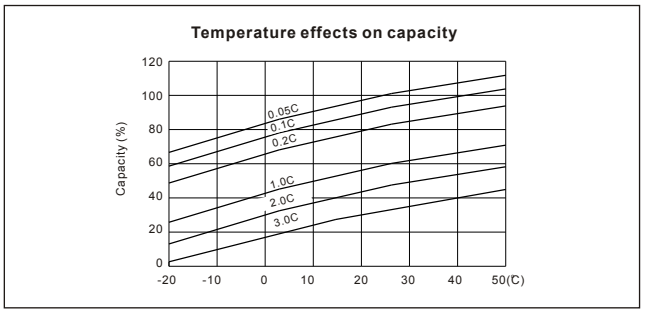


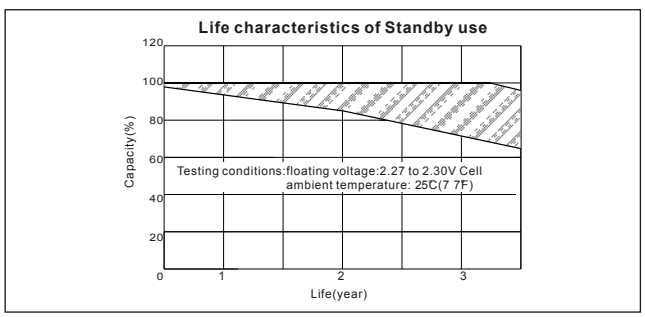


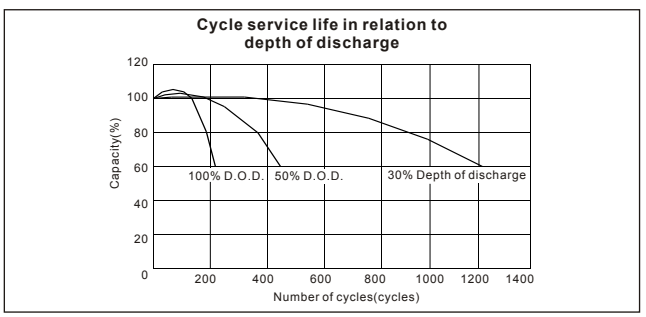












Constant current discharge ratings-amperes at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	86.3	60.4	46.0	27.3	15.5	6.77	4.42	2.44	1.26
1.65V	82.0	57.7	43.8	26.2	15.2	6.55	4.30	2.40	1.23
1.70V	77.1	54.5	41.5	25.0	14.8	6.33	4.18	2.35	1.22
1.75V	72.3	51.3	39.3	23.8	14.2	6.06	4.05	2.32	1.20
1.80V	67.4	48.6	37.0	22.6	13.5	5.79	3.93	2.28	1.18

Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	160	112	85.6	51.0	29.2	12.8	8.40	4.67	2.42
1.65V	151	106	81.0	48.7	28.5	12.3	8.12	4.56	2.35
1.70V	141	100	76.4	46.3	27.6	11.8	7.85	4.45	2.31
1.75V	132	93.3	71.9	43.8	26.3	11.3	7.58	4.37	2.27
1.80V	121	87.4	67.0	41.1	24.8	10.7	7.27	4.24	2.20