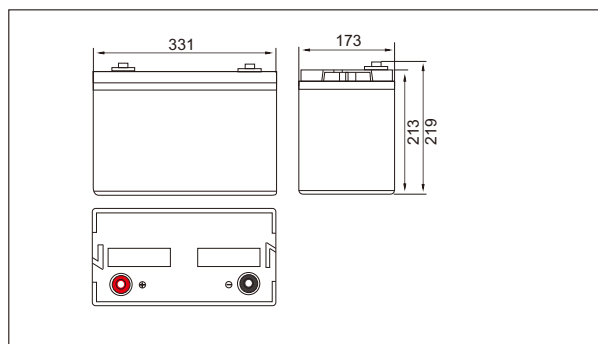


VP121000GEL(12V100Ah)



Outer dimensions(± 2) (mm)



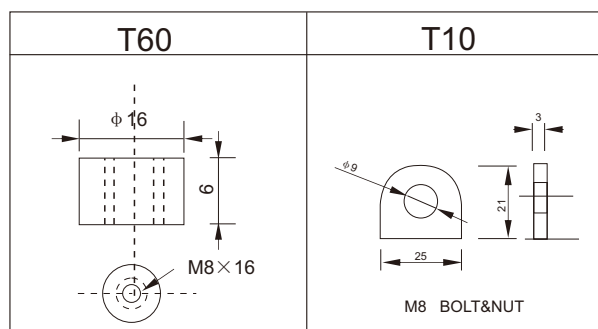
Specifications

Nominal voltage		12V
Rated capacity (10 hour rate)		100Ah
Dimensions	Total height	233±2mm (9,17 inches)
	Height	213±2mm (8,39 inches)
	Length	331±2mm (13,0 inches)
	Width	173±1mm (6,81 inches)
Weight approx(±3%)		30.5Kg (67.26lbs)

Characteristics (25°C)

Capacity 25°C(77°F)	10 hour rate(10.0 A, 10.8V) 5 hour rate(16.0A, 10.5V) 1 hour rate(60 A, 9.6V)	100 Ah 80Ah 60Ah
Internal Resistance	Full charged battery at 25°C(77°F) Approx 6.0 mΩ	
Capacity affected by Temperature (10hour rate)	40°C (104°F) 25°C (77°F) 0°C (32°F) -15°C (5°F)	102% 100% 85% 65%
Remaining capacity Self-Discharge At 25°C(77°F)	Capacity after 3 month storage Capacity after 6 month storage Capacity after 12 month storage	91% 82% 64%
Terminal type	T60 (Option T10)	
Max. Discharge current 25°C/(77°F)	830A (5Seconds)	
Nominal operating temperature	25°C $\pm$ 5°C(77°F $\pm$ 9°F)	
Operating Temperature Range	Discharge Charge Storage	-15°C ~ 50°C (5°F ~ 122°F) -10°C ~ 50°C (14°F ~ 122°F) -20°C ~ 50°C (-4°F ~ 122°F)
Charge methods (constant Voltage) At 25°C(77°F)	Cycle use Standby use	Initial Charging Current less than 25 A Voltage 14.5-15.0V Temperature compensation:-30mV/°C Voltage 13.5-13.8V Temperature compensation:-18mV/°C

Terminal Type (mm)



Features

GEL Technology;
Low self-discharge;
Safe and reliable, low floating current;
Excellent cycling performance;
Separator: glass fiber with high adsorption
and high stability.

Temperature environment(-20~50°C);

Applications

Telecom & UPS; Medical equipment;
Emergency lighting; Vacuum cleaner;
Fire & security system;
Photovoltaic & Solar & Wind power system.

Standards

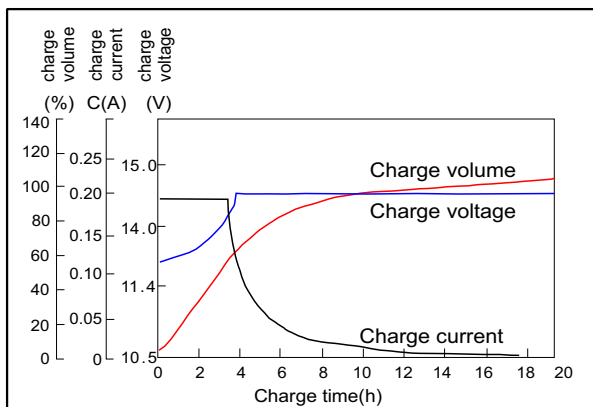
GB/T 19639-2014; JIS C8704-1:2006; EUROBAT;
IEC 60896-21/22:2004; UL MH26669;

Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

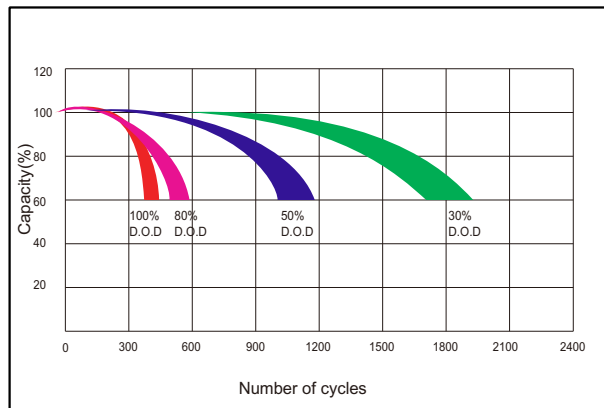
Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	320.3	211	170	114	60	35	25.7	20	16.5	11.7	10.5	5.7
	W	3305.5	2253	1823	1226	648	384	286	225	187.6	134	121.3	65.9
10.20V	A	310.2	190	160	109	56	33.4	25	19.5	16.2	11.4	10.3	5.5
	W	3312.9	2126	1792	1223	638	385	290	226.7	188	133.4	121	65
10.50V	A	300.1	170	140	102	54.6	32.6	24.4	19.2	16	11.3	10.1	5.5
	W	3277.1	1937	1598	1173	632	378	284	224.6	187.6	132	119.5	64.5
10.80V	A	289.2	160	130	94	52.8	31.8	23.8	18.9	15.6	11	10	5.4
	W	3244.8	1850	1500	1089	614.6	372	280	223	184.4	130	118	64.3
11.10V	A	279.5	150	120	84	51	31	23	18.4	15.2	10.7	9.5	5.1
	W	3169.5	1741	1400	982	600	366	273	219	181.4	128	114.7	61.8

(Above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.)

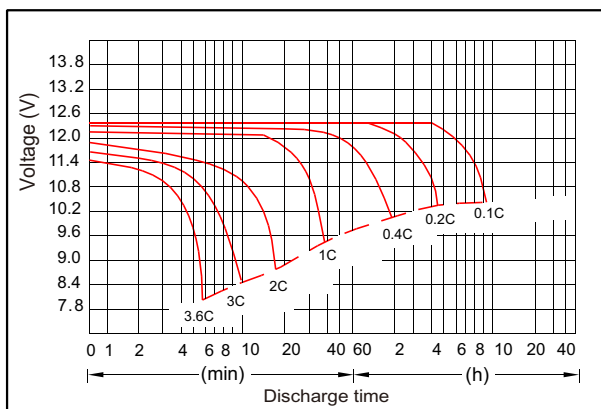
● Charge characteristics(25 °C)



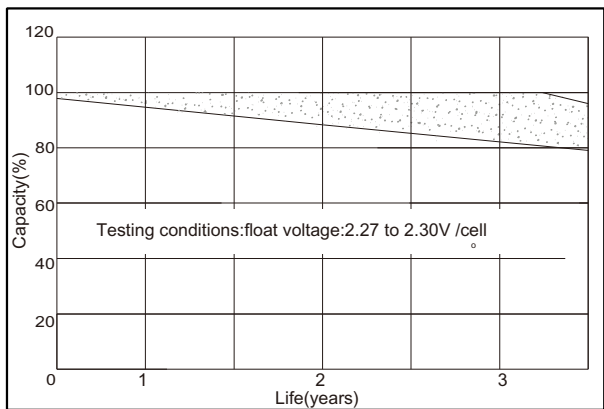
● Cycle life characteristics (25 °C)



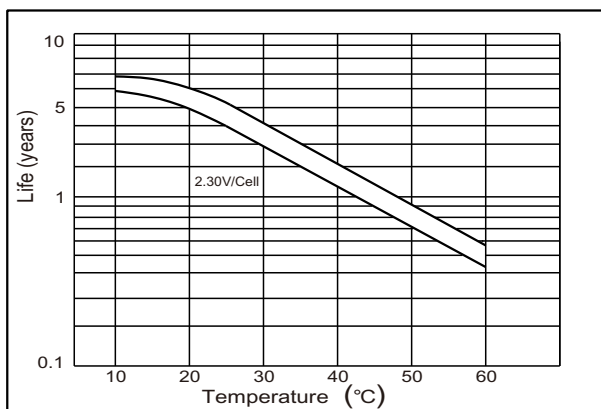
● Discharge characteristics(25 °C)



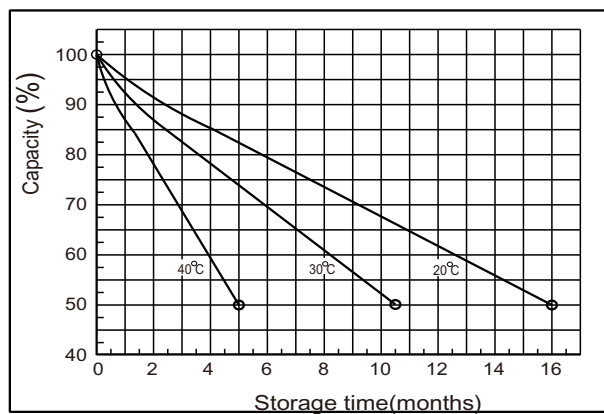
● Standby life characteristics (25°C)



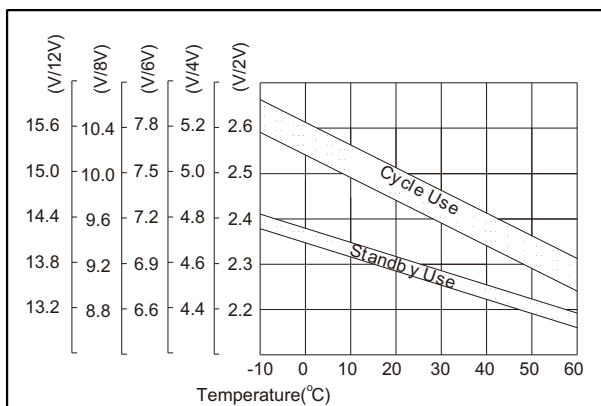
● Float life on temperature



● Self-discharge characteristic s



● Relationship between charge voltage and temperature



● Effect of temperature on capacity

