



UNLG Series is GEL battery which is manufactured with AGM separator and colloidal Silicon. Gel battery are featured with low self-discharge, strong ability to recover from deep discharging, excellent cycle life and performance at cold ambient temperatures than conventional VRLA

Battery Construction

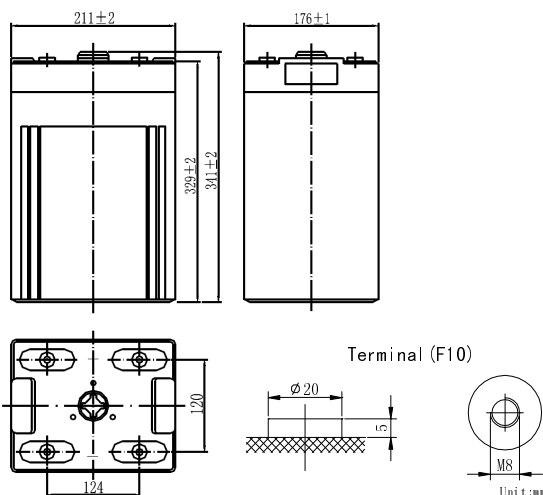
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon

General Feature

- Micro millimeter SiO₂ and H₂SO₄ 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.

SPECIFICATION

Nominal voltage 2V
 Number of cell 1
 Length(mm/inch) 210/8.27
 Width(mm/inch) 176/6.93
 Height(mm/inch) 330/13.0
 Total Height(mm/inch) 367/14.5
 Approx. Weight (kg/lbs) 26.5/58.4



Total height with removable cover: 367

Performance Characteristics

Capacity 77°F(25°C)	100 hour rate (4.8A、1.85V)	480Ah
	20 hour rate (21A、1.8V)	420Ah
	10 hour rate (40A、1.8V)	400Ah
	1 hour rate (240A、1.6V)	240Ah
Internal Resistance	Full charged Battery 77°F(25°C): 0.65mΩ	
Operating Temperature Range	Discharge: -20~60°C	
	Charge: -10~60°C	
	Storage: -20~60°C	
Self-Discharge 3% of capacity declined per month at 20°C(average)		
Max. discharge current 77°F(25°C): 1600A(5S)		
Charge (Constant Voltage)	Float: 2.23~2.28 V/77° F(25°C)	
	Cycle: 2.38~2.42 V/77°F(25°C) Max. Current: 80A	

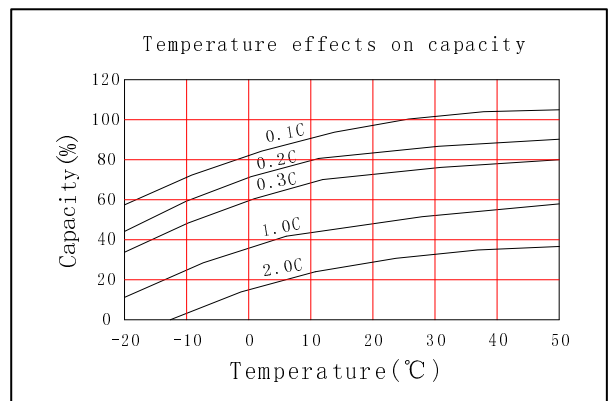
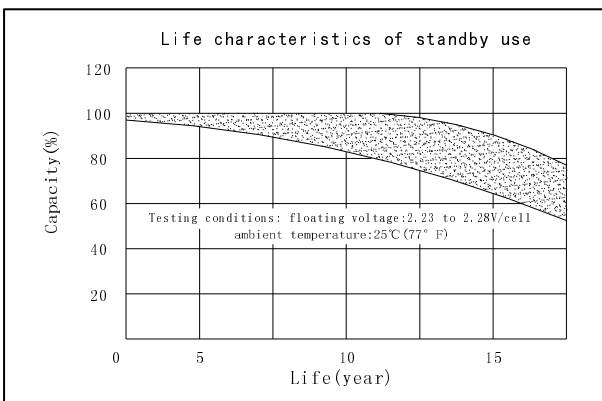
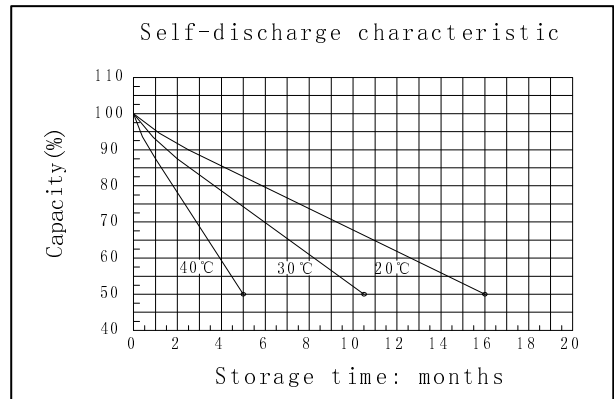
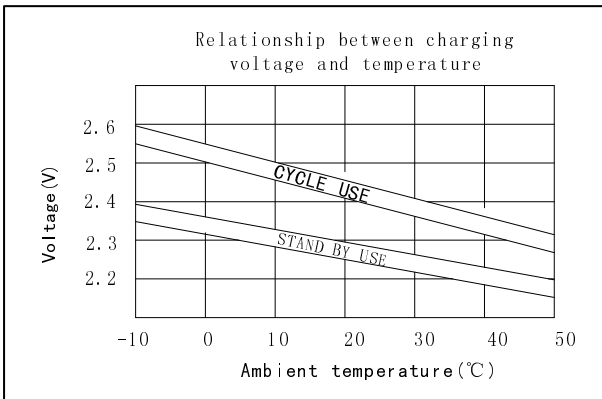
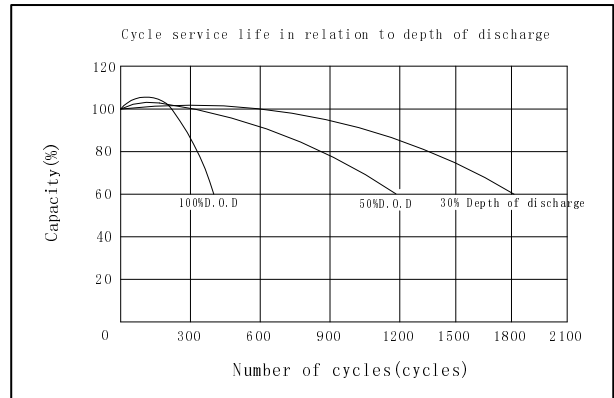
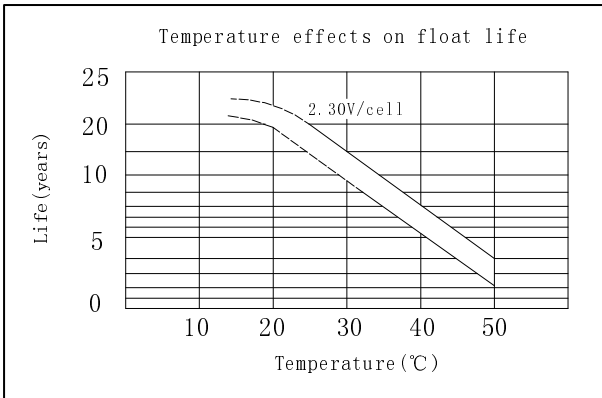
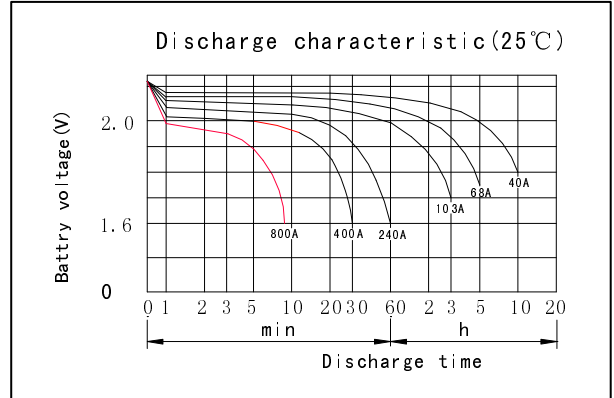
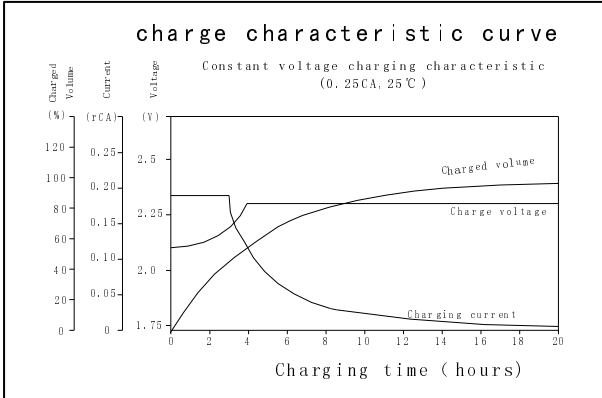
Discharge Constant Current (Amperes at 77° F 25 °C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V		695	558	403	309	240	111	73.2	41.5
1.65V		659	531	385	296	231	107	71.6	41.2
1.70V		621	503	366	283	223	103	69.6	40.9
1.75V		583	475	347	270	213	98.9	68.0	40.5
1.80V		544	446	327	255	203	95.1	65.0	40.0

Discharge Constant Power (watts at 77° F 25 °C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		1220	866	703	611	470	302	208	137
1.65V		1150	820	668	581	449	279	204	135
1.70V		1078	772	632	549	429	264	198	132
1.75V		1008	724	594	518	406	254	192	129
1.80V		938	677	556	485	383	239	182	123

(Note)The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum values.



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