



UNLG500-2 (2V500Ah/10hr)



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

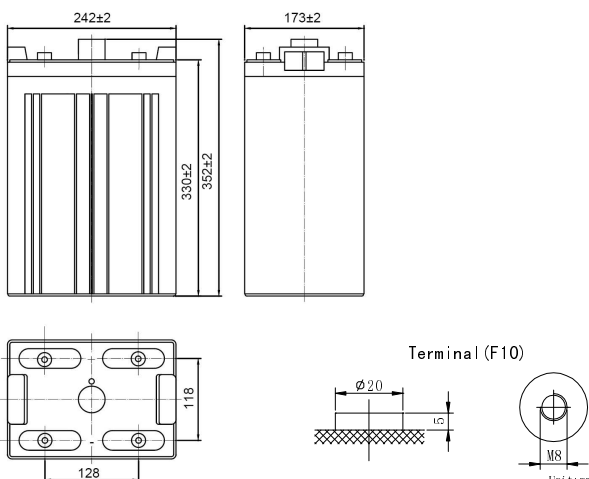
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon

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) 242/9.53
 Width(mm/inch) 173/6.81
 Height(mm/inch) 330/13.0
 Total Height(mm/inch) 365/14.4
 Approx. Weight (kg/lbs) 33.5/73.8



Total height with removable cover: 365

Performance Characteristics

Capacity 77°F(25°C)	100 hour rate (6A、1.85V)	600Ah
	20 hour rate (26.5A、1.8V)	530Ah
	10 hour rate (50A、1.8V)	500Ah
	1 hour rate (294A、1.6V)	294Ah
Internal Resistance	Full charged Battery 77°F(25°C):0.6mΩ	
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): 2000A(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: 100A	

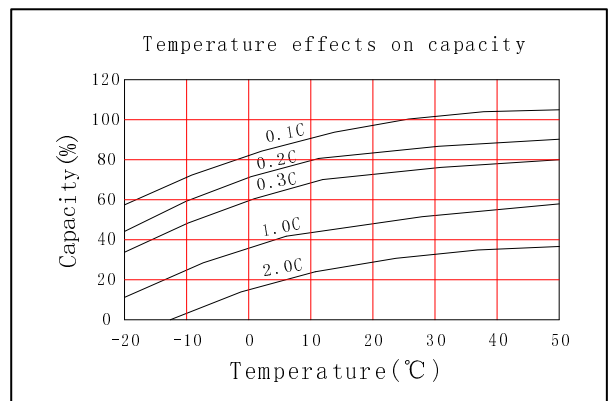
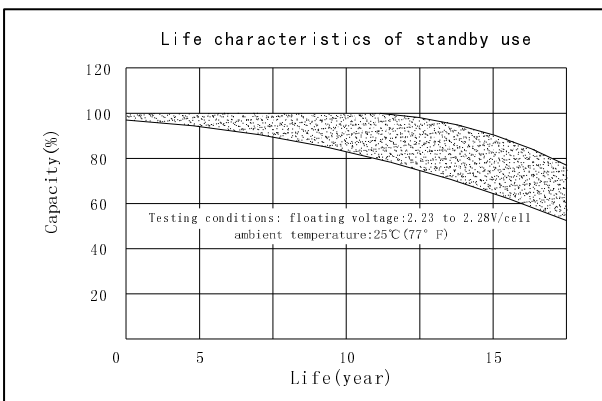
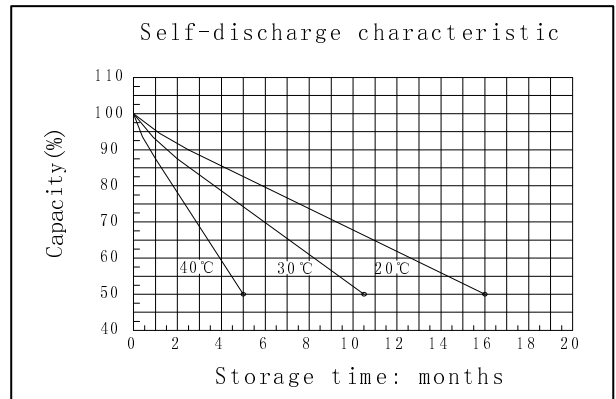
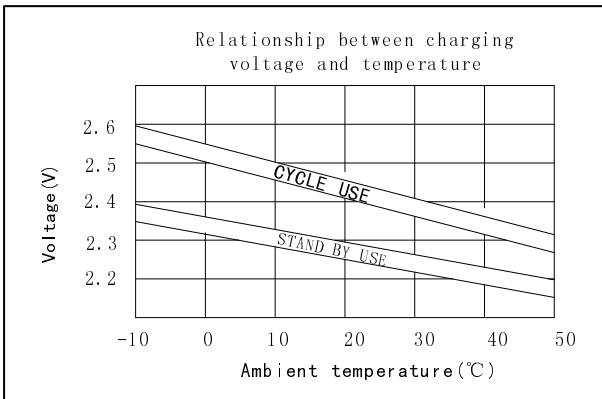
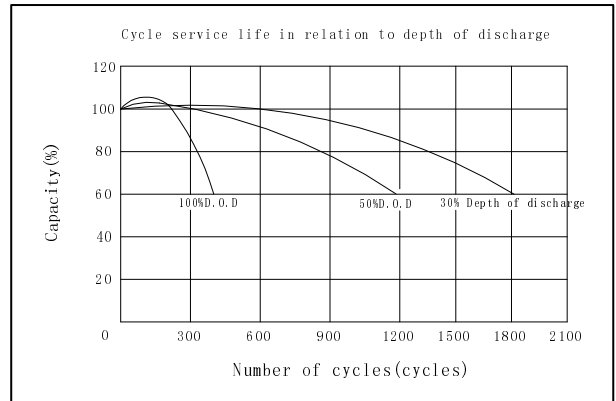
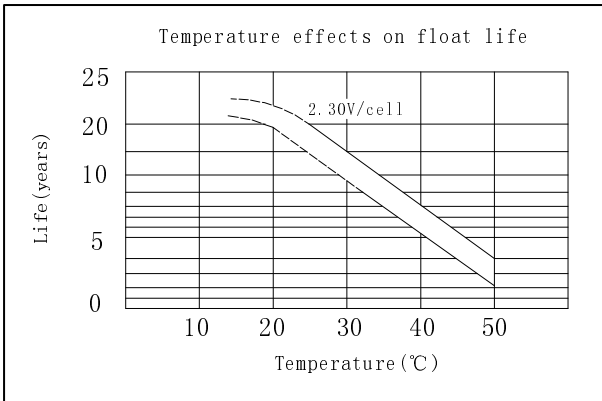
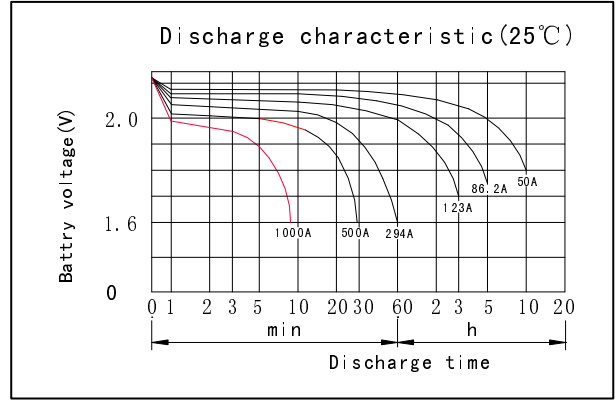
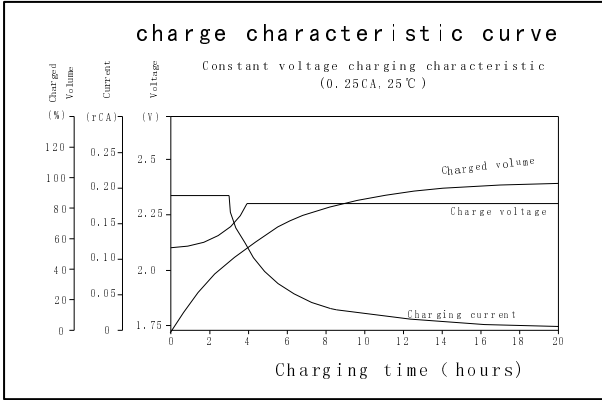
Discharge Constant Current (Amperes at 77°F 25 °C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V		900	683	485	372	294	131	92.6	53.8
1.65V		852	650	466	357	284	127	90.7	53.1
1.70V		804	616	446	341	272	123	88.7	52.2
1.75V		754	582	415	325	260	120	86.2	51.2
1.80V		704	547	393	307	248	113	83.3	50.0

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		1484	1110	902	748	613	370	265	164
1.65V		1398	1050	857	714	587	354	255	161
1.70V		1311	989	811	678	561	338	242	158
1.75V		1225	928	763	641	532	323	231	154
1.80V		1140	867	716	604	504	298	212	146

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



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