



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

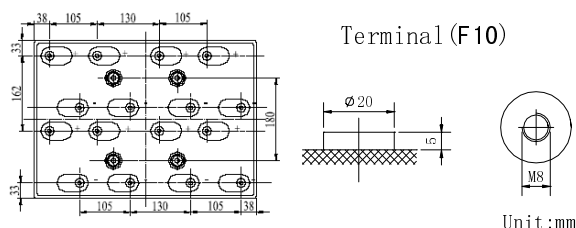
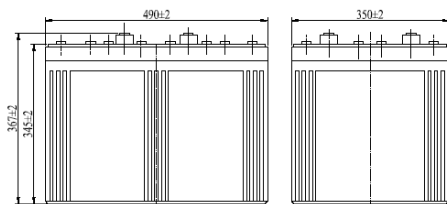
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon

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) 490/19.3
 Width(mm/inch) 350/13.8
 Height(mm/inch) 345/13.6
 Total Height(mm/inch) 382/15.04
 Approx. Weight (kg/lbs) 121/266.7



Total height with removable cover: 382

Performance Characteristics

Capacity 77°F(25℃)	100 hour rate (14A、1.85V)	2400Ah
	20 hour rate (105A、1.8V)	2100Ah
	10 hour rate (200A、1.8V)	2000Ah
	1 hour rate (1180A、1.6V)	1180Ah
Internal Resistance	Full charged Battery77°F(25℃):0.3mΩ	
Operating Temperature Range	Discharge: -20～60℃	
	Charge: -10～60℃	
	Storage: -20～60℃	
Self-Discharge 3% of capacity declined per month at 20℃(average)		
Max. discharge current77°F(25℃): 3000A(5S)		
Charge (Constant Voltage)	Float: 2.23～2.28 V/77° F/(25℃)	
	Cycle:2.38～2.42 V/77°F/(25℃) Max. Current: 400A	

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

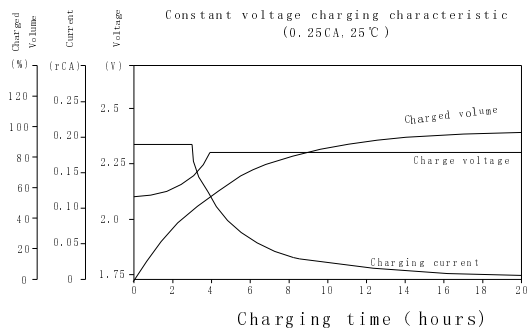
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V		3403	2562	1995	1425	1180	529	376	214
1.65V		3224	2439	1908	1368	1157	519	370	211
1.70V		3046	2312	1815	1311	1133	505	363	208
1.75V		2858	2181	1720	1245	1104	485	350	204
1.80V		2660	2050	1625	1178	1075	466	338	200

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

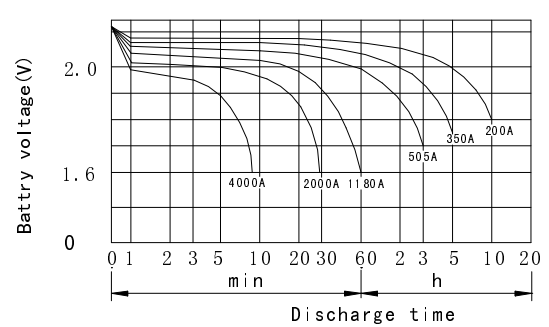
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		5409	4375	3366	2539	2118	1443	987	692
1.65V		5097	4140	3197	2423	2045	1388	971	687
1.70V		4779	3903	3026	2300	1970	1327	957	678
1.75V		4465	3658	2850	2175	1942	1298	937	664
1.80V		4151	3418	2671	2052	1832	1236	877	650

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

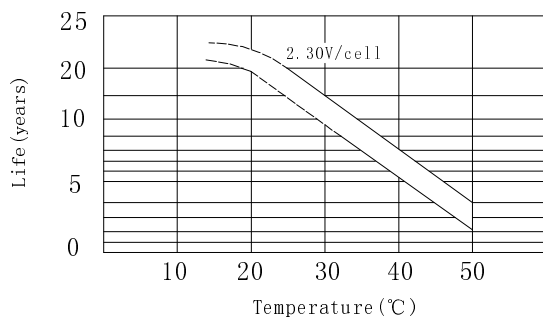
charge characteristic curve



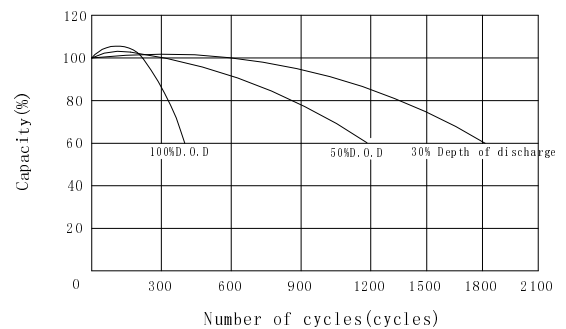
Discharge characteristic (25°C)



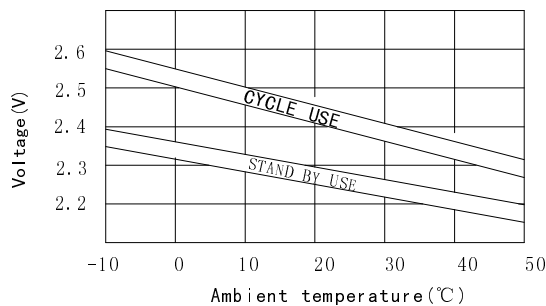
Temperature effects on float life



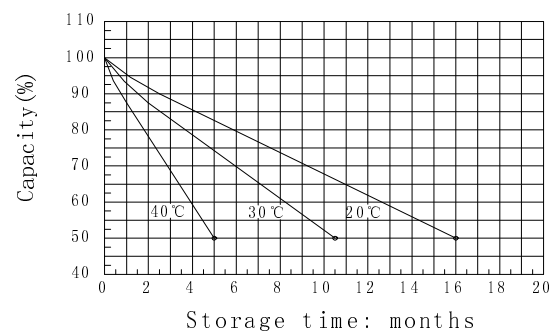
Cycle service life in relation to depth of discharge



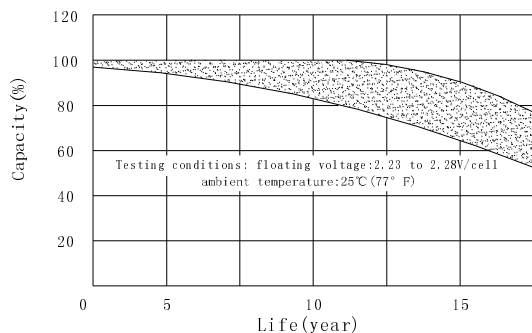
Relationship between charging voltage and temperature



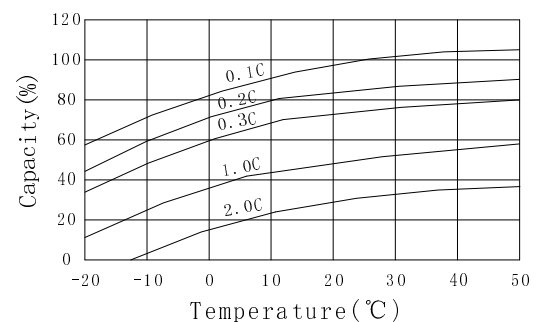
Self-discharge characteristic



Life characteristics of standby use



Temperature effects on capacity



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