



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

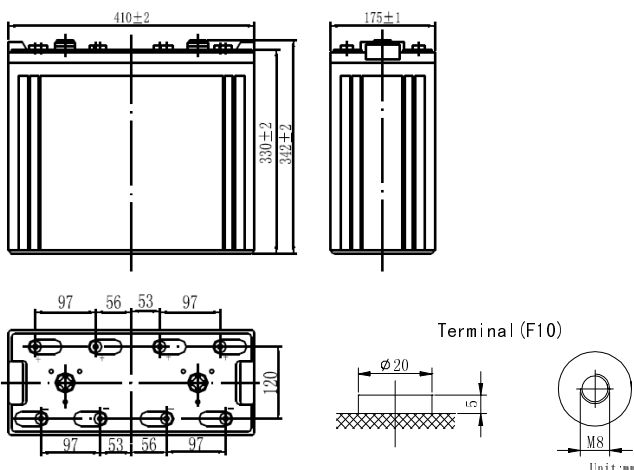
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon

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) 410/16.1
 Width(mm/inch) 175/6.89
 Height(mm/inch) 330/13.0
 Total Height(mm/inch) 367/14.5
 Approx. Weight (kg/lbs) 52.6/115.9



Total height with removable cover: 367

Performance Characteristics

Capacity 77°F(25℃)	100 hour rate (9.6A、1.85V)	960Ah
	20 hour rate (42.5A、1.8V)	850Ah
	10 hour rate (80A、1.8V)	800Ah
	1 hour rate (480A、1.6V)	480Ah
Internal Resistance	Full charged Battery77°F(25℃):0.5mΩ	
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℃): 2500A(5S)		
Charge (Constant Voltage)	Float: 2.23～2.28 V/77° F/(25℃)	
	Cycle:2.38～2.42 V/77°F/(25℃) Max. Current: 160A	

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V		1507	1229	795	630	480	216	151	85.5
1.65V		1429	1169	759	603	462	209	147	84.1
1.70V		1348	1108	722	577	442	201	143	82.8
1.75V		1264	1044	685	549	423	195	139	81.5
1.80V		1179	981	646	519	403	189	134	80.0

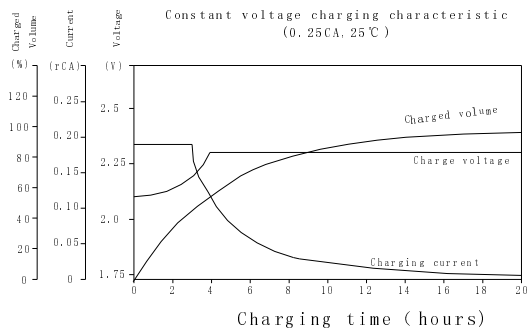
Discharge Constant Power (watts at 77°F 25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		2298	1915	1452	1099	917	619	442	297
1.65V		2165	1812	1379	1048	878	601	423	292
1.70V		2030	1706	1306	996	838	582	405	286
1.75V		1896	1600	1229	942	796	564	386	280
1.80V		1764	1495	1141	888	754	545	368	266

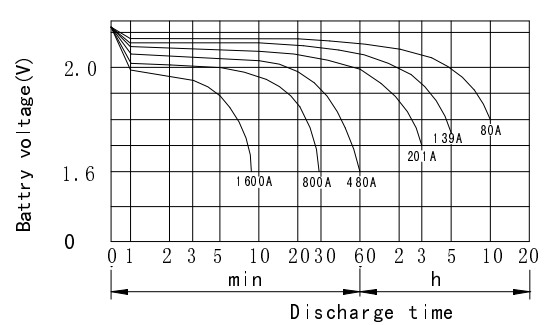
(Note) The above characteristics data are average values obtained

Within three charge/discharge cycles not the minimum values.

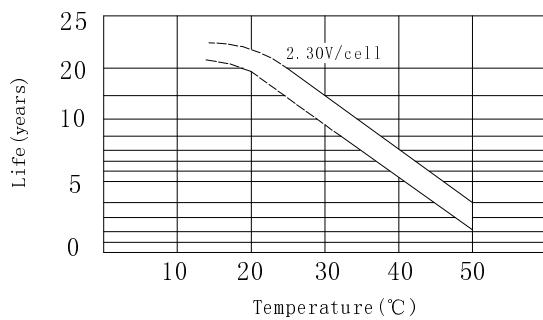
charge characteristic curve



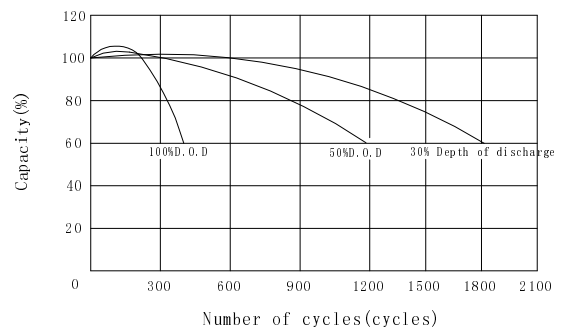
Discharge characteristic (25°C)



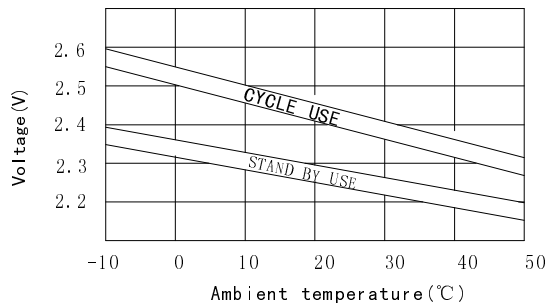
Temperature effects on float life



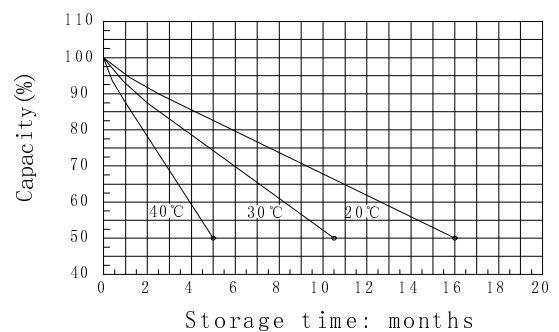
Cycle service life in relation to depth of discharge



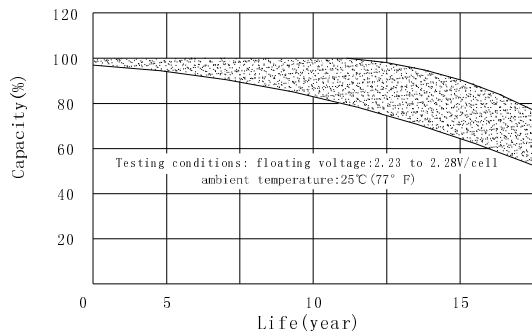
Relationship between charging voltage and temperature



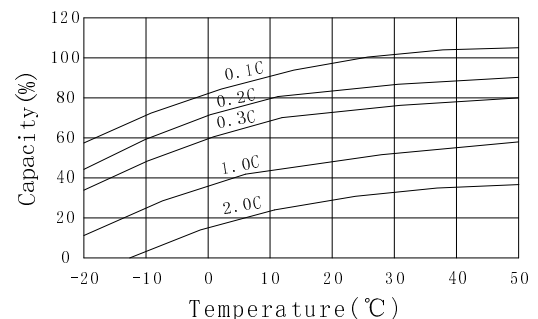
Self-discharge characteristic



Life characteristics of standby use



Temperature effects on capacity



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