



UNFG100-12 (12V100Ah/10hr)



UNG 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

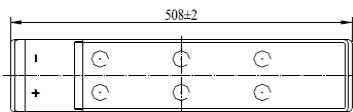
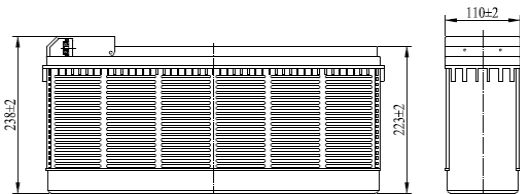
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon

General Feature

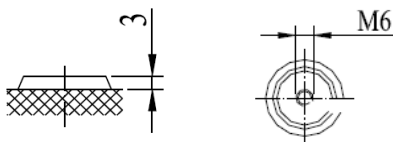
- Micro millimeter SiO₂ and H₂SO₄ technology for Efficient gas recombination of up to 99% and Freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer 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 12V
 Number of cell 6
 Length(mm/inch) 508/20.0
 Width(mm/inch) 110/4.33
 Height(mm/inch) 223/8.78
 Total Height(mm/inch) 238/9.37
 Approx. Weight(kg/lbs) 33/72.7



Terminal



Performance Characteristics

Capacity 77°F(25°C)	100 hour rate (1.2A、 11.1V)	120Ah
	20 hour rate (5.3A、 10.8V)	106Ah
	10 hour rate (10A、 10.8V)	100Ah
	1 hour rate (68A、 9.6V)	68Ah
Internal Resistance	Full charged Battery77°F(25°C):8.5mΩ	
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 current77°F(25°C): 800A(5S)		
Charge (Constant Voltage)	Float: 13.38~13.68 V/77° F(25°C)	
	Cycle:14.28~14.52 V/77°F/(25°C) Max. Current: 25A	

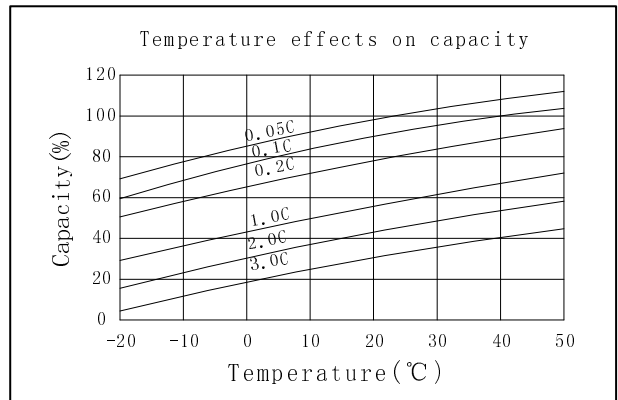
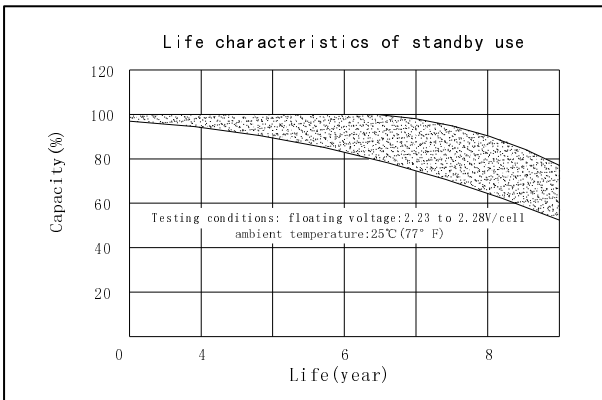
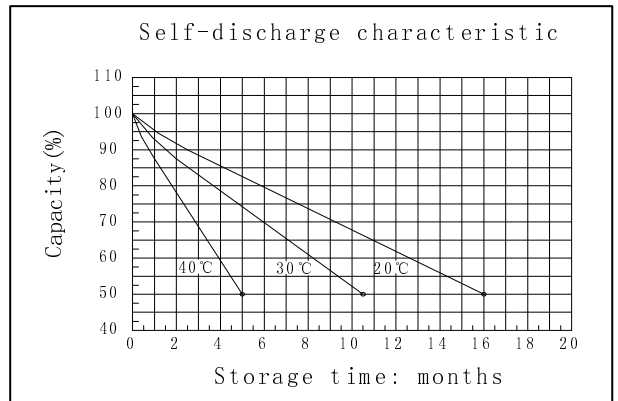
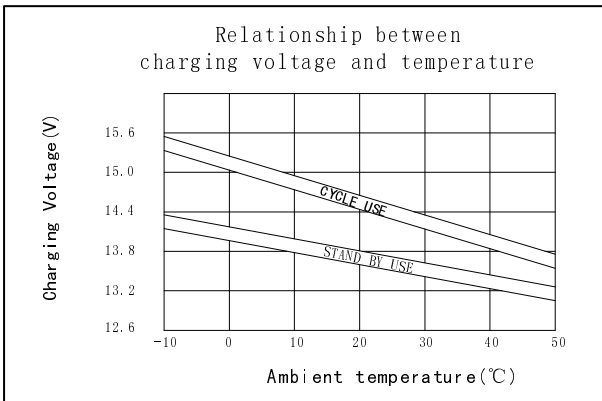
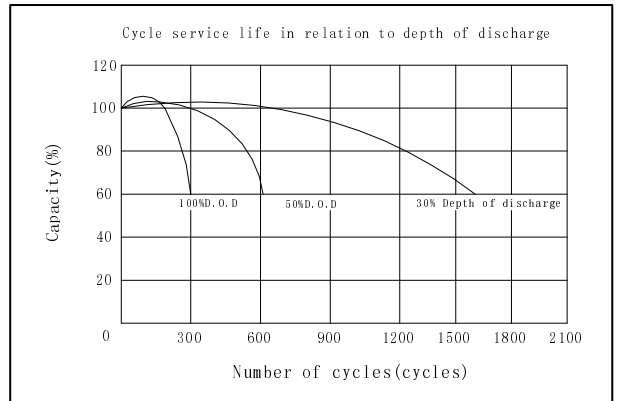
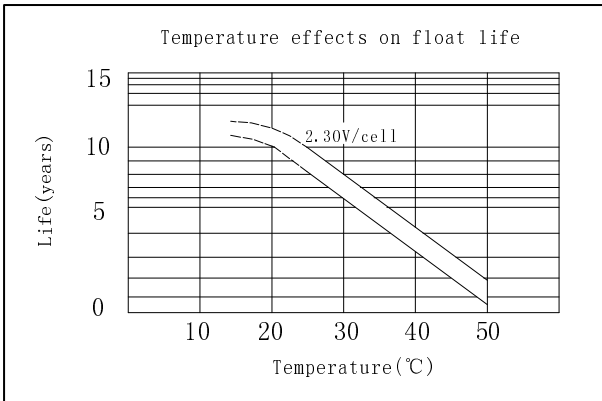
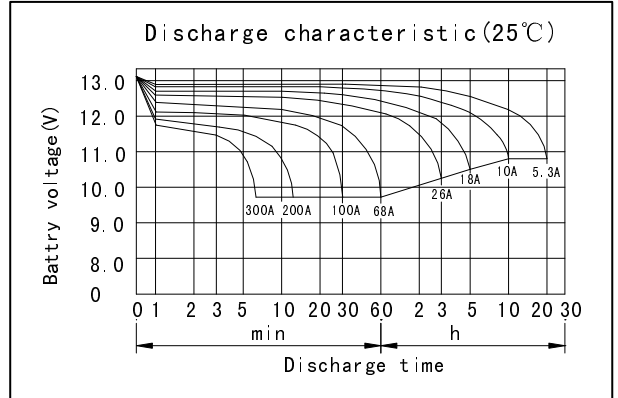
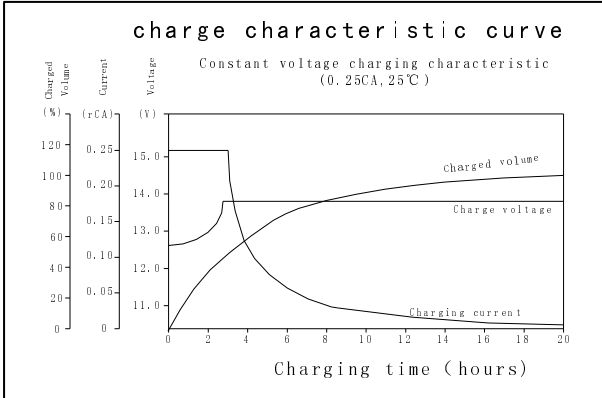
Discharge Constant Current (Amperes at 77° F25 °C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V		220	170	115	78.5	68.0	27.2	18.3	10.3
1.65V		203	160	111	76.0	66.0	26.6	18.2	10.2
1.70V		187	149	107	73.5	63.9	26.0	18.1	10.2
1.75V		169	138	103	71.0	61.9	25.4	18.0	10.1
1.80V		150	126	98	68.0	59.5	24.7	17.8	10.0

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		380	319	223	171	138	77.7	57.0	37.1
1.65V		358	303	214	165	134	76.8	56.5	36.8
1.70V		337	286	205	160	131	75.9	56.0	36.5
1.75V		316	270	196	154	127	75.0	55.4	36.2
1.80V		294	254	187	148	123	74.1	54.9	35.9

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



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