



UNG100-12 (12V100Ah/20hr)



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

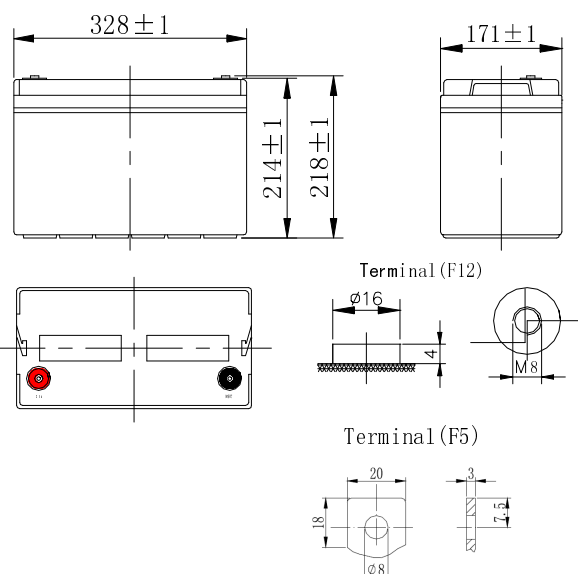
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon

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) 328/12.9
Width(mm/inch) 171/6.73
Height(mm/inch) 214/8.43
Total Height(mm/inch) 218/8.58
Approx. Weight(kg/lbs) 29.0/63.9



Performance Characteristics

Capacity 77°F(25℃)	20 hour rate (5A、10.5V)	100Ah
	10 hour rate (9.5A、10.5V)	95Ah
	5 hour rate (17.5A、10.5V)	87.5Ah
	1 hour rate (65A、9.6V)	65Ah
Internal Resistance	Full charged Battery77°F(25℃): 6 mΩ	
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℃): 1000A(5S)		
Charge (Constant Voltage)	Float: 13.5 ～13.8V/77 ° F/(25℃)	
	Cycle:14.4 ～14.9 V/77°F/(25℃) Max. Current: 25A	

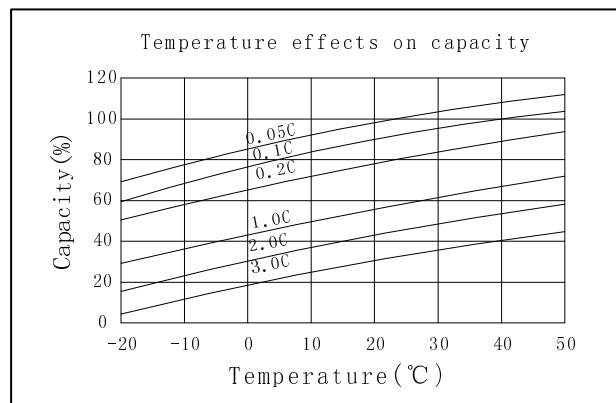
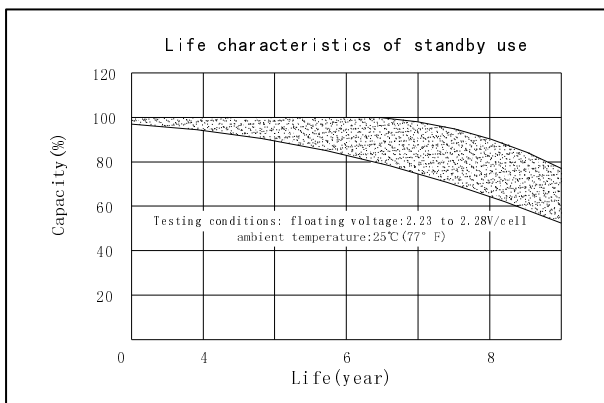
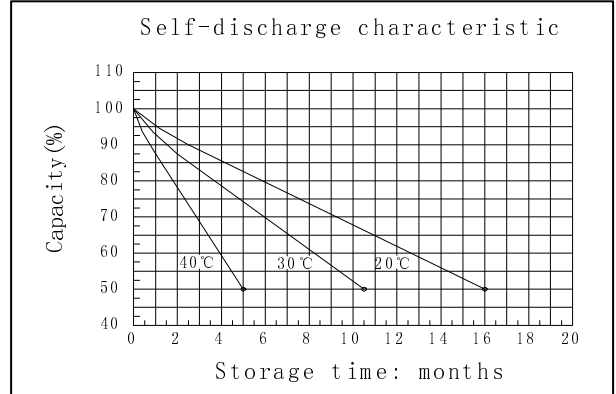
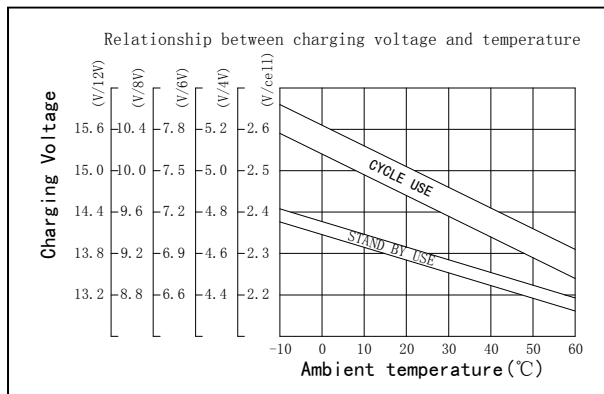
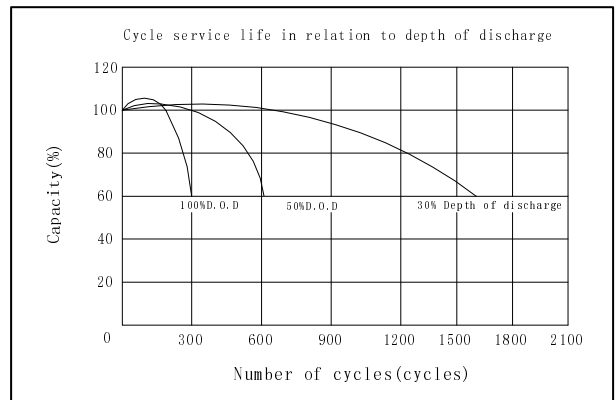
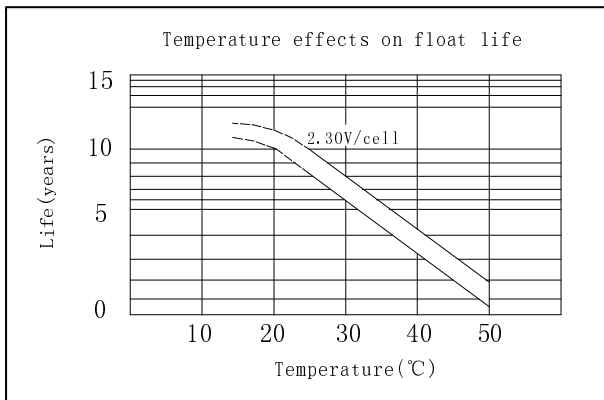
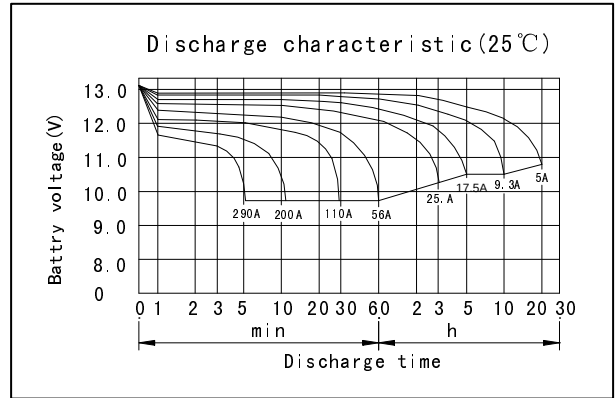
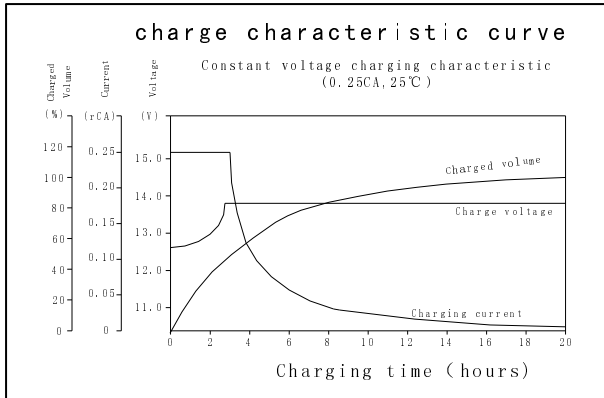
Discharge Constant Current (Amperes at 77° F 25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V		228	189	110	65.0	27.5	19.0	9.70	5.10
1.65V		218	182	108	63.5	26.5	18.8	9.60	5.05
1.70V		208	175	106	61.2	25.0	18.4	9.58	5.03
1.75V		196	166	100	58.4	24.4	17.5	9.50	5.00
1.80V		185	156	95.0	55.6	23.2	17.0	9.10	4.85

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	326	212	162	126	77.0	57.0	38.5
1.65V		365	316	208	160	125	75.6	55.6	37.5
1.70V		348	305	205	157	122	73.5	54.2	36.9
1.75V		332	294	198	153	119	70.8	52.6	36.0
1.80V		313	280	189	149	116	68.6	51.2	35.6

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



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