



UNFG80-12 (12V80Ah/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

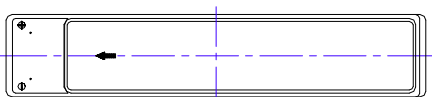
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon

General Feature

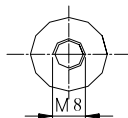
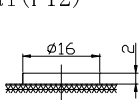
- Micro millimeter SiO₂ and H₂SO₄ technology for Efficient gas recombination of up to 99% and Freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer 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) 563/22.2
 Width(mm/inch) 115/4.53
 Height(mm/inch) 188/7.40
 Total Height(mm/inch) 188/7.40
 Approx. Weight(kg/lbs) 28.0/61.7



Terminal (F12)



Unit:mm

Performance Characteristics

Capacity 77°F(25°C)	100 hour rate (0.96A、 11.1V)	96Ah
	20 hour rate (4.3A、 10.8V)	86Ah
	10 hour rate (8A、 10.8V)	80Ah
	1 hour rate (51.8A、 9.6V)	51.8Ah
Internal Resistance	Full charged Battery77°F(25°C):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 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: 20A	

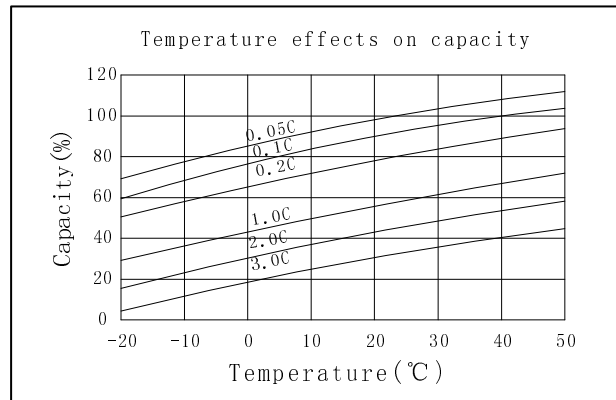
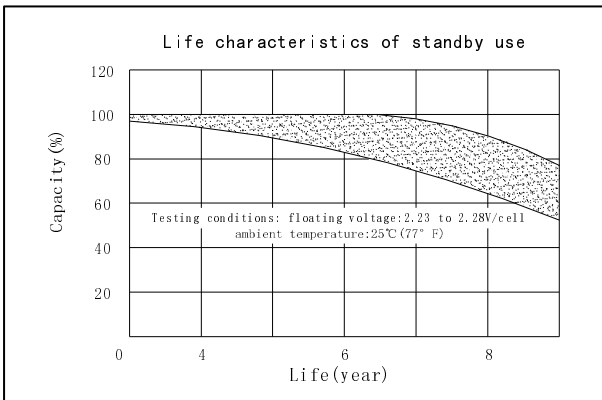
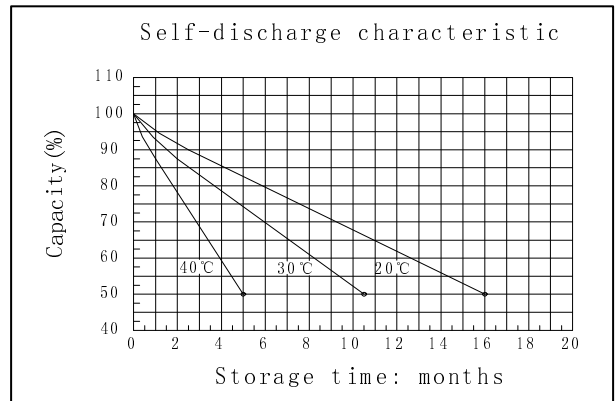
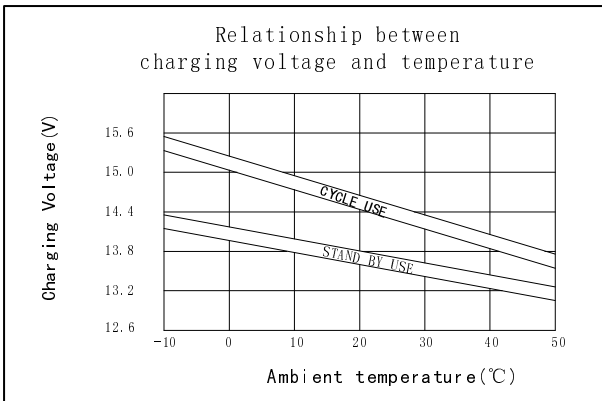
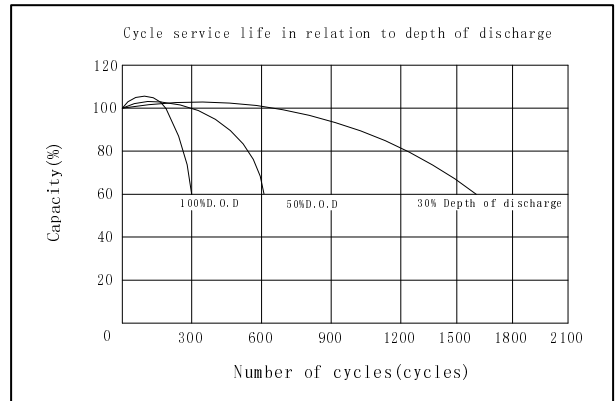
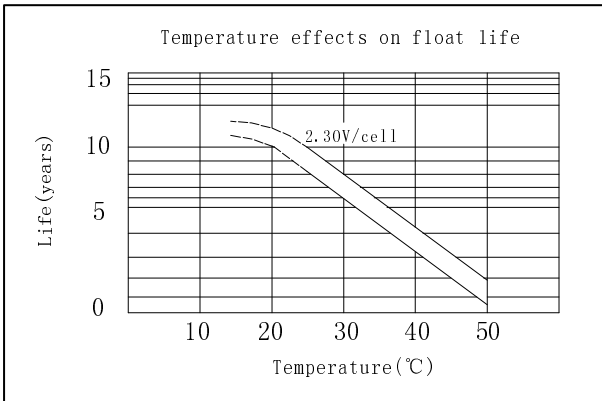
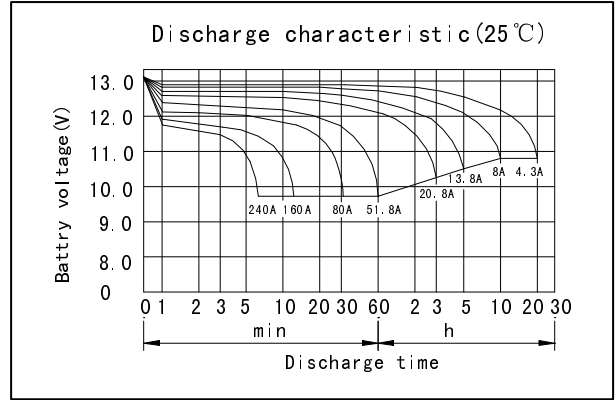
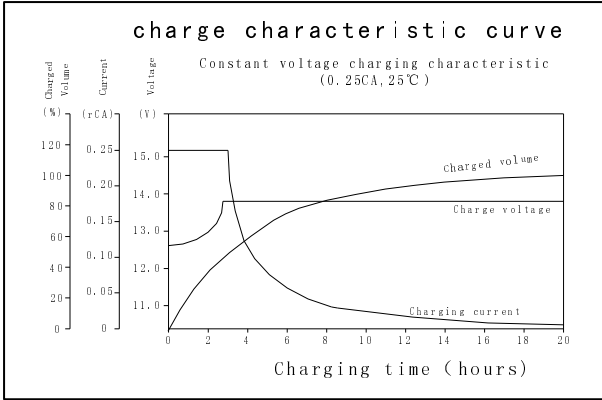
Discharge Constant Current (Amperes at 77° F25 °C)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	188	148	92.2	66.5	51.8	21.7	14.5	8.20	4.40
1.65V	177	137	89.1	64.3	50.8	21.3	14.2	8.20	4.40
1.70V	164	130	86.1	62.0	49.7	20.8	14.0	8.15	4.35
1.75V	153	122	82.9	59.7	48.6	20.3	13.8	8.10	4.35
1.80V	142	116	79.7	57.2	47.3	19.7	13.5	8.00	4.30

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

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	10h
1.60V	326	254	162	121	97.7	55.3	42.0	29.4	15.5
1.65V	302	241	157	116	94.7	54.2	41.4	29.0	15.4
1.70V	280	227	150	111	93.4	53.4	40.8	28.6	15.3
1.75V	262	213	143	112	90.9	52.7	40.3	28.1	15.2
1.80V	239	197	135	101	89.5	51.9	39.6	27.5	15.0

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



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