



NPG Series is GEL battery which is manufactured with AGM separator and coloidal 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

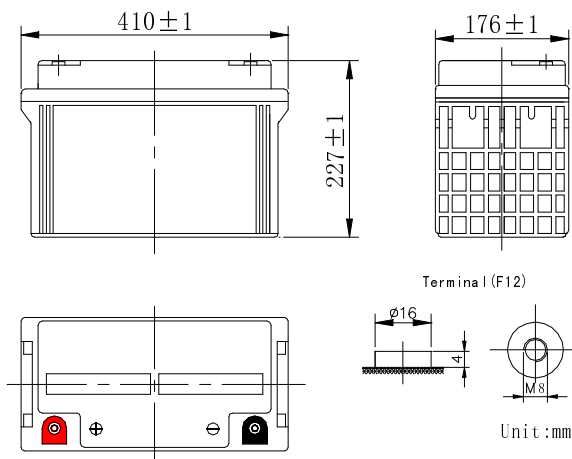
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon

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) 410/16.1
 Width(mm/inch) 176/6.93
 Height(mm/inch) 209/8.23
 Total Height(mm/inch) 227/8.94
 Approx. Weight (kg/lbs) 31/68.2



Performance Characteristics

Capacity 77°F(25°C)	100 hour rate (1.32A 11.1V)	132Ah
	20 hour rate (6A、 10.5V)	120Ah
	10 hour rate (11.0A、 10.5V)	110Ah
	1 hour rate (67A、 9.6V)	67Ah
Internal Resistance	Full charged Battery77°F(25°C):8mΩ	
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): 1000A(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: 30A	

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

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	330	246	202	118	67.0	29.5	20.0	11.3	6.12
1.65V	310	238	196	115	66.8	29.3	19.8	11.2	6.10
1.70V	290	226	188	112	66.4	29.0	19.7	11.1	6.05
1.75V	268	212	180	108	66.1	28.7	19.6	11.0	6.00
1.80V	245	200	171	105	65.2	28.3	19.3	10.8	5.90

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	550	443	355	219	155	143	80.2	56.7	39.9
1.65V	528	421	343	212	152	141	78.3	56.0	39.5
1.70V	501	399	332	205	149	139	77.3	55.3	39.2
1.75V	473	377	320	199	145	136	75.3	54.8	38.9
1.80V	443	353	309	192	142	131	73.3	53.8	38.6

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

