



NP180-12G (12V180Ah/10hr)



NPG 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

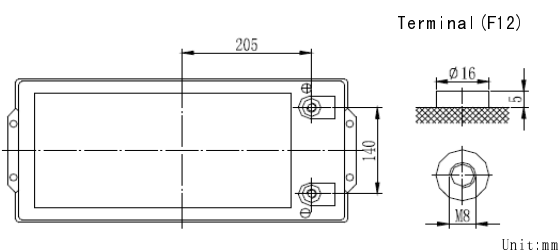
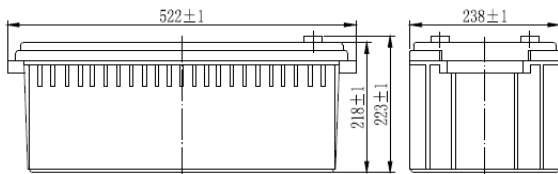
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Colloidal silicon

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) 522/20.55
 Width(mm/inch) 238/9.37
 Height(mm/inch) 218/8.58
 Total Height(mm/inch) 223/8.78
 Approx. Weight (kg/lbs) 51/112.3



Unit:mm

Performance Characteristics

Capacity 77°F(25°C)	100 hour rate (2.15A、 11.1V)	215Ah
	20 hour rate (9A、 10.8V)	180Ah
	10 hour rate (17.5A、 10.5V)	175Ah
	1 hour rate (112A、 9.6V)	112Ah
Internal Resistance	Full charged Battery77°F(25°C):5.5mΩ	
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): 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: 45A	

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

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V		383	306	191	112	47.5	33.2	17.9	9.25
1.65V		361	286	184	110	46.8	32.7	17.8	9.20
1.70V		339	267	177	108	46.0	32.2	17.7	9.15
1.75V		315	245	174	106	45.3	31.5	17.5	9.10
1.80V		291	223	167	103	44.3	31.0	17.3	9.00

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

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		611	495	327	236	218	121	85.9	59.9
1.65V		587	477	314	231	215	119	84.8	59.6
1.70V		562	463	303	226	210	116	83.6	59.1
1.75V		534	447	290	222	206	113	82.4	58.8
1.80V		504	412	274	217	201	109	81.5	58.1

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

