

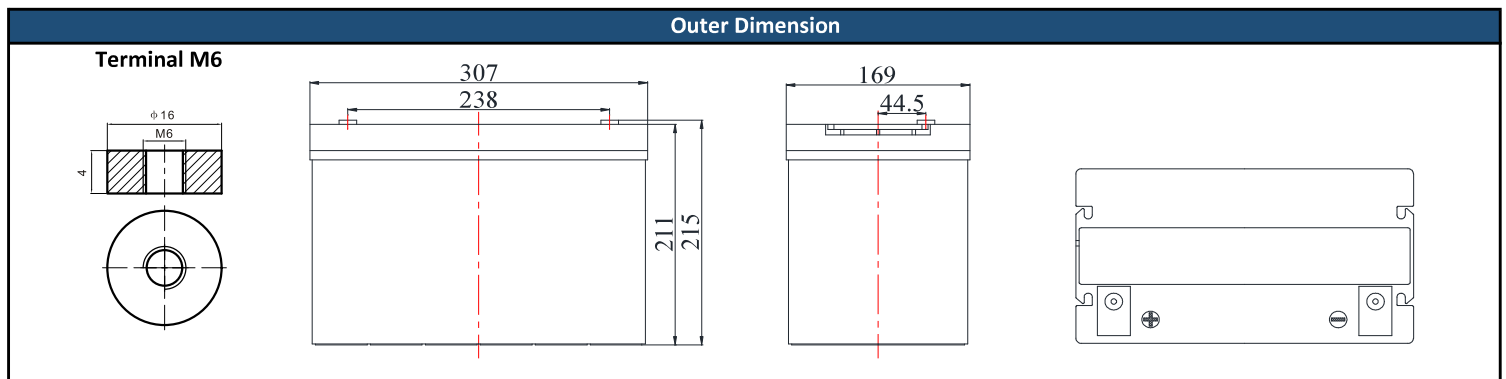
NPDG121050 (DEEP CYCLE GEL BATTERY)

12V 105Ah



NPDG series advanced GEL battery with its special design mates the advantages of low internal resistance that from AGM construction design that has much better discharge capability rate to power backup any standby system, also enhances the traditional GEL battery properties or better thermal stability and cycle life to serve most of the motive applications. The colloidal silica electrolyte provides extra heat capacity due to extra water to tolerate harsh and fluctuating temperature environments. The product is designed very much suitable for power back up of any standby system at a place where temperature fluctuation stands a critical affecting factor for system operation.

Performance Characteristics		
General Information	Length	307 mm
	Width	169 mm
	Height	211 mm
	Total Height	215 mm
	Approx Weight	30.3 kg ± 3%
	Nominal Voltage	12 Volt
	Number of Cells	6
	Nominal Capacity (20 hour rate)	105 Ah
	Terminal	M6
Nominal Capacity 77°F (25°C)	10 hour rate (9.1A, 10.8V)	91 Ah
	5 hour rate (15.9A, 10.5V)	79.5 Ah
	1 hour rate (55.6A, 9.6V)	55.6 Ah
Internal Resistance	Fully Charged Battery 77°F (25°C) ≤ 6.5 mΩ	
Operating Temperature	-30°C ~ 60°C	
Constant voltage charging @ 77°F (25°C)	Initial charging current	≤ 22.5 A
	Boost charging voltage	14.4V to 14.9V
	Float charging voltage	13.6V to 13.8V



Constant Current Discharge Data (Amperes at 25°C)									
F.V/Time	15Min	30Min	45Min	1Hr	3Hr	5Hr	8Hr	10Hr	20Hr
1.60V	128.7	82.2	60.4	55.6	24.8	16.8	11.1	9.9	5.35
1.67V	126.4	80.7	59.3	54.5	24.3	16.5	10.9	9.7	5.33
1.70V	124	79.2	58.2	53.5	23.9	16.2	10.7	9.5	5.3
1.75V	121.7	77.7	57.1	52.5	23.4	15.9	10.5	9.4	5.25
1.80V	117	74.7	54.9	50.5	22.5	15.3	10.1	9.1	5.2

Constant Power Discharge Data (Watts per cell at 25°C)									
F.V/Time	15Min	30Min	45Min	1Hr	2Hr	3Hr	5Hr	8Hr	10Hr
1.60V	247.7	158.2	116.3	106.7	67.8	47.6	32.4	21.3	19.1
1.67V	243.2	155.3	114.1	104.8	66.6	46.8	31.8	21	18.7
1.70V	238.7	152.4	112	102.8	65.4	45.9	31.2	20.6	18.4
1.75V	234.2	149.5	109.9	100.9	64.1	45	30.6	20.2	18
1.80V	225.2	143.8	105.7	97	61.7	43.3	29.5	19.4	17.3

* The above characteristics data are average values obtained within three charge/discharge cycles of a sample battery. It is not intent to make or imply any representation; guarantee or warranty with respect to any battery cell. Battery cell designs/specifications are subject to modify without prior notice.