

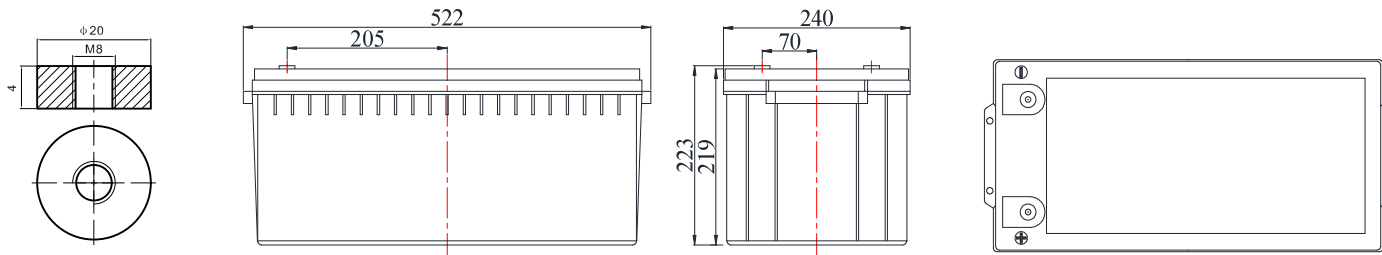
NPDG122200 (DEEP CYCLE GEL BATTERY)

12V 220Ah



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	522 mm
	Width	240 mm
	Height	219 mm
	Total Height	223 mm
	Approx Weight	65.1 kg \pm 3%
	Nominal Voltage	12 Volt
	Number of Cells	6
	Nominal Capacity (20 hour rate)	220 Ah
	Terminal	M8
Nominal Capacity 77°F (25°C)	10 hour rate (20.02A, 10.8V)	200.2 Ah
	5 hour rate (35A, 10.5V)	175 Ah
	1 hour rate (122.3A, 9.6V)	122.3 Ah
Internal Resistance	Fully Charged Battery 77°F (25°C) \leq 3.7 m Ω	
Operating Temperature	-30°C ~ 60°C	
Constant voltage charging @ 77°F (25°C)	Initial charging current	\leq 39.6 A
	Boost charging voltage	14.4V to 14.9V
	Float charging voltage	13.6V to 13.8V

Outer Dimension	
Terminal M8	
	

Constant Current Discharge Data (Amperes at 25°C)									
F.V/Time	15Min	30Min	45Min	1Hr	3Hr	5Hr	8Hr	10Hr	20Hr
1.60V	283.1	180.8	132.9	122.3	54.6	37	24.4	21.78	11.66
1.67V	278.1	177.5	130.5	119.9	53.5	36.3	24	21.34	11.44
1.70V	272.8	174.2	128	117.7	52.6	35.6	23.5	20.9	11.22
1.75V	267.7	170.9	125.6	115.5	51.5	35	23.1	20.68	11
1.80V	257.4	164.3	120.8	111.1	49.5	33.7	22.2	20.02	10.89

Constant Power Discharge Data (Watts per cell at 25°C)									
F.V/Time	15Min	30Min	45Min	1Hr	2Hr	3Hr	5Hr	8Hr	10Hr
1.60V	544.9	348	255.9	234.7	149.2	104.7	71.3	46.9	42
1.67V	535	341.7	251	230.6	146.5	103	70	46.2	41.1
1.70V	525.1	335.3	246.4	226.2	143.9	101	68.6	45.3	40.5
1.75V	515.2	328.9	241.8	222	141	99	67.3	44.4	39.6
1.80V	495.4	316.4	232.5	213.4	135.7	95.3	64.9	42.7	38.1

* 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.