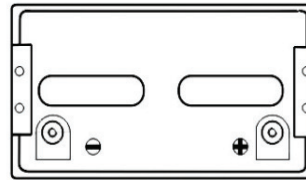
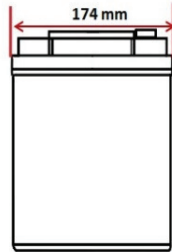
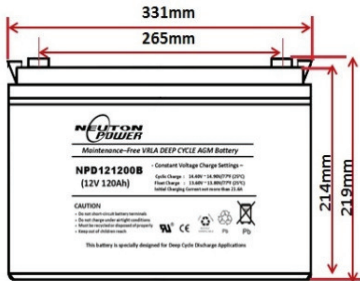


NPD series designed for applications that typically discharge 60% to 70% or more of the battery capacity. The battery is typically feature thick plates with high density active material. The thick battery plates allow for reserve energy to be stored deep within the battery plates and released during slow discharging such as trolling or solar applications. The high density material remains within the batteries' plate/grid structure longer, resisting the normal degradation found in cycling conditions. The battery is typically used for great extent discharge and recharged. The battery uses a different chemistry for the plates' active paste material and a slightly stronger acid. This chemistry allows for a much longer life in deep cycle applications with only a slightly reduction in maximum power output.



Performance Characteristics		
General Information	Length	331 mm
	Width	176 mm
	Height	214 mm
	Total Height	220 mm
	Approx Weight	33.0 kg ± 3%
	Nominal Voltage	12 Volt
	Number of Cells	6
	Nominal Capacity (20 hour rate)	120 Ah
	Terminal	M8
	Casing Material	Standard
Optional - UL94 V0, Flame Retardant		ABS
Nominal Capacity 77°F (25°C)	20 hour rate @ 1.80V (6.0A)	120 Ah
	10 hour rate @ 1.80V (10.3A)	103 Ah
	5 hour rate @ 1.70V (19.0A)	95 Ah
Internal Resistance	Fully Charged Battery 77°F (25°C) ≤ 5.0 mΩ	
Max. Discharge current in 5 sec	1200 A	
Capacity affected by Temperature	104°F (40°C) @ 20 hour rate	102%
	77°F (25°C) @ 20 hour rate	100%
	32°F (0°C) @ 20 hour rate	85%
	5°F (-15°C) @ 20 hour rate	65%
Reserve capacity to 10.5V at 27°C (the number of minutes a battery at 25A or 75A)	@ 25Amps	180 mins
	@ 75Amps	48 mins
Constant voltage charging @ 77°F (25°C)	Initial charging current	≤ 21.6 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)											
End Point Volts/Cell	10min	15min	30min	45min	1hr	2hr	3hr	5hr	8hr	10hr	20hr
1.60V	173	148	94.2	69.5	63.8	40.5	28.4	19.3	12.7	11.4	6.40
1.65V	170	145	92.5	68.3	62.7	39.8	27.9	19.0	12.5	11.1	6.36
1.70V	167	142	90.8	67.0	61.5	39.0	27.4	18.6	12.3	10.90	6.30
1.75V	164	139	89.1	65.7	60.4	38.3	26.9	18.0	12.1	10.7	6.26
1.80V	158	134	85.6	63.2	58.0	36.8	25.8	17.6	11.6	10.3	6.00

Constant Power Discharge Data (Watts per cell at 25°C)											
End Point Volts/Cell	10min	15min	30min	45min	1hr	2hr	3hr	5hr	8hr	10hr	20hr
1.60V	334	284	181	133	122	78.0	54.7	37.2	24.5	21.9	12.1
1.65V	328	279	178	131	120	76.6	53.7	36.5	24.1	21.5	11.9
1.70V	322	274	174	129	118	75.2	52.7	35.9	23.7	21.1	11.7
1.75V	316	269	171	126	116	73.7	51.8	35.2	23.2	20.7	11.5
1.80V	304	259	164	121	111	70.9	49.8	33.8	22.3	19.9	11.1

Above data provided from tested samples is generally for descriptive only. 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.