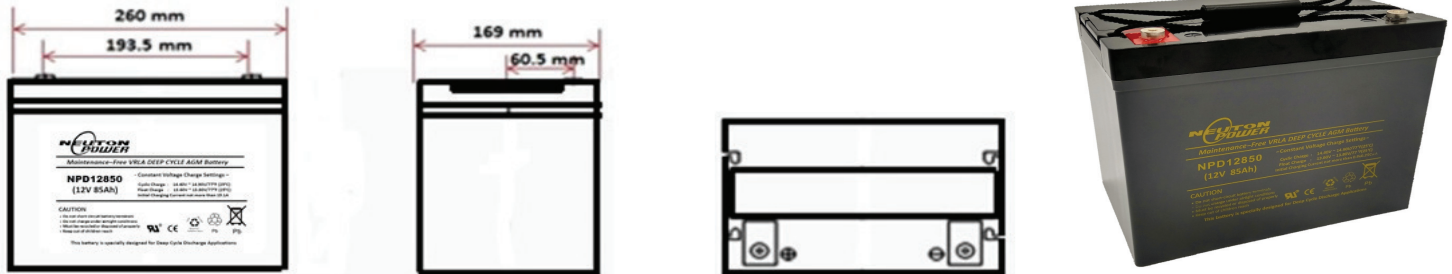


NPD series designed for applications that typically discharge 60% to 70% or more of the battery capacity. The battery is typically feature thick plates with high density active material. The thick battery plates allow for reserve energy to be stored deep within the battery plates and released during 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	260 mm
	Width	169 mm
	Height	211 mm
	Total Height	215 mm
	Approx Weight	26.1 kg ± 3%
	Nominal Voltage	12 Volt
	Number of Cells	6
	Nominal Capacity (20 hour rate)	85 Ah
	Terminal	M6
	Casing Material	Standard
Optional - UL94 V0, Flame Retardant		ABS
Nominal Capacity 77°F (25°C)	20 hour rate @ 1.80V (4.25A)	85 Ah
	10 hour rate @ 1.80V (7.65A)	76.5 Ah
	5 hour rate @ 1.70V (13.8A)	69 Ah
Internal Resistance	Fully Charged Battery 77°F (25°C) ≤ 5.5 mΩ	
Max. Discharge current in 5 sec	900 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	130 mins
	@ 75Amps	34 mins
Constant voltage charging @ 77°F (25°C)	Initial charging current	≤ 19.1 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	129	109	69.7	51.4	47.2	30.0	21.0	14.3	9.43	8.42	4.70
1.65V	126	107	68.4	50.5	46.3	29.4	20.6	14.0	9.27	8.26	4.57
1.70V	124	105	67.1	49.5	45.5	28.9	20.3	13.8	9.11	8.10	4.49
1.75V	122	103	65.9	48.6	44.6	28.3	19.9	13.5	8.95	7.97	4.41
1.80V	117	99	63.3	46.8	42.9	27.2	19.1	13.0	8.58	7.65	4.25

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	247	211	134	99.0	90.9	57.7	40.5	27.5	18.2	16.2	8.99
1.65V	243	207	132	97.2	89.3	56.6	39.7	27.0	17.9	15.9	8.82
1.70V	238	203	129	95.4	87.6	55.6	39.0	26.5	17.5	15.6	8.66
1.75V	234	199	127	93.6	85.9	54.5	38.3	26.0	17.2	15.3	8.50
1.80V	225	191	122	90.0	82.6	52.5	36.8	25.1	16.5	14.7	8.18

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.