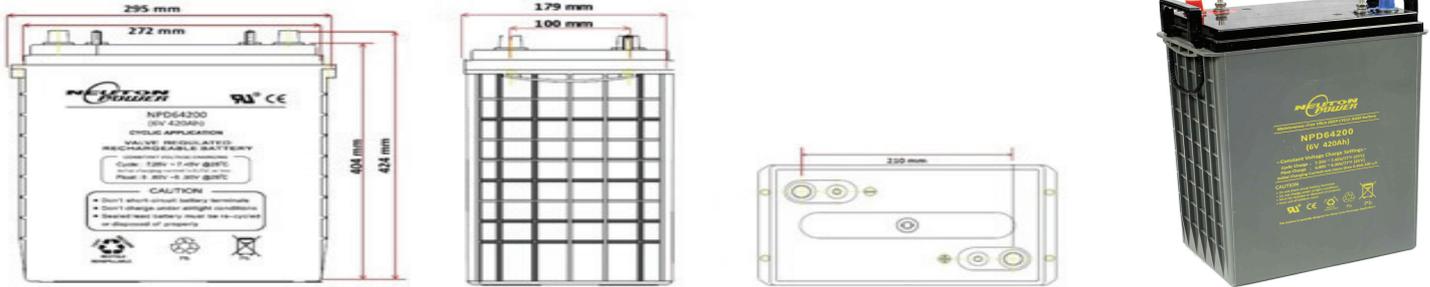


NPD series designed for applications that typically discharge 60% to 70% or more of the battery capacity. The battery is typically feature thick plates with high density active material. The thick battery plates allow for reserve energy to be stored deep within the battery plates and released during 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		
<b>General Information</b>	Length	295 mm
	Width	179 mm
	Height	404 mm
	Total Height	424 mm
	Approx Weight	56.0 kg ± 3%
	Nominal Voltage	6 Volt
	Number of Cells	3
	Nominal Capacity (20 hour rate)	420 Ah
	Terminal	DT
	<b>Casing Material</b>	Standard
Optional - UL94 V0, Flame Retardant		ABS
<b>Nominal Capacity 77°F (25°C)</b>	20 hour rate @ 1.80V (21.0A)	420 Ah
	10 hour rate @ 1.80V (37.8A)	378 Ah
	5 hour rate @ 1.70V (69.0A)	345 Ah
<b>Internal Resistance</b>	Fully Charged Battery 77°F (25°C) ≤ 1.5 mΩ	
<b>Max. Discharge current in 5 sec</b>	3800 A	
<b>Capacity affected by Temperature</b>	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%
<b>Reserve capacity to 10.5V at 27°C (the number of minutes a battery at 25A or 75A)</b>	@ 25Amps	855 mins
	@ 75Amps	240 mins
<b>Constant voltage charging @ 77°F (25°C)</b>	Initial charging current	≤ 75.6 A
	Boost charging voltage	7.20V to 7.45V
	Float charging voltage	6.80V to 6.90V

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	635	540	344	254	233	148	104	70.7	46.7	41.6	23.1
1.65V	623	530	337	249	229	145	102	69.4	45.8	40.8	22.7
1.70V	612	520	331	244	224	142	100	68.1	45.0	40.1	22.3
1.75V	600	511	325	240	220	140	98.3	66.8	44.1	39.3	21.8
1.80V	577	491	312	231	212	134	94.5	64.3	42.4	37.8	21.0

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	1222	1040	662	489	449	285	200	136	89.8	80.0	44.5
1.65V	1200	1021	650	480	441	279	196	133	88.2	78.6	43.7
1.70V	1178	1002	638	471	432	274	192	131	86.6	77.1	42.9
1.75V	1156	983	626	462	424	269	189	128	84.9	75.7	42.0
1.80V	1111	945	602	444	408	259	181	123	81.7	72.8	40.4

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.