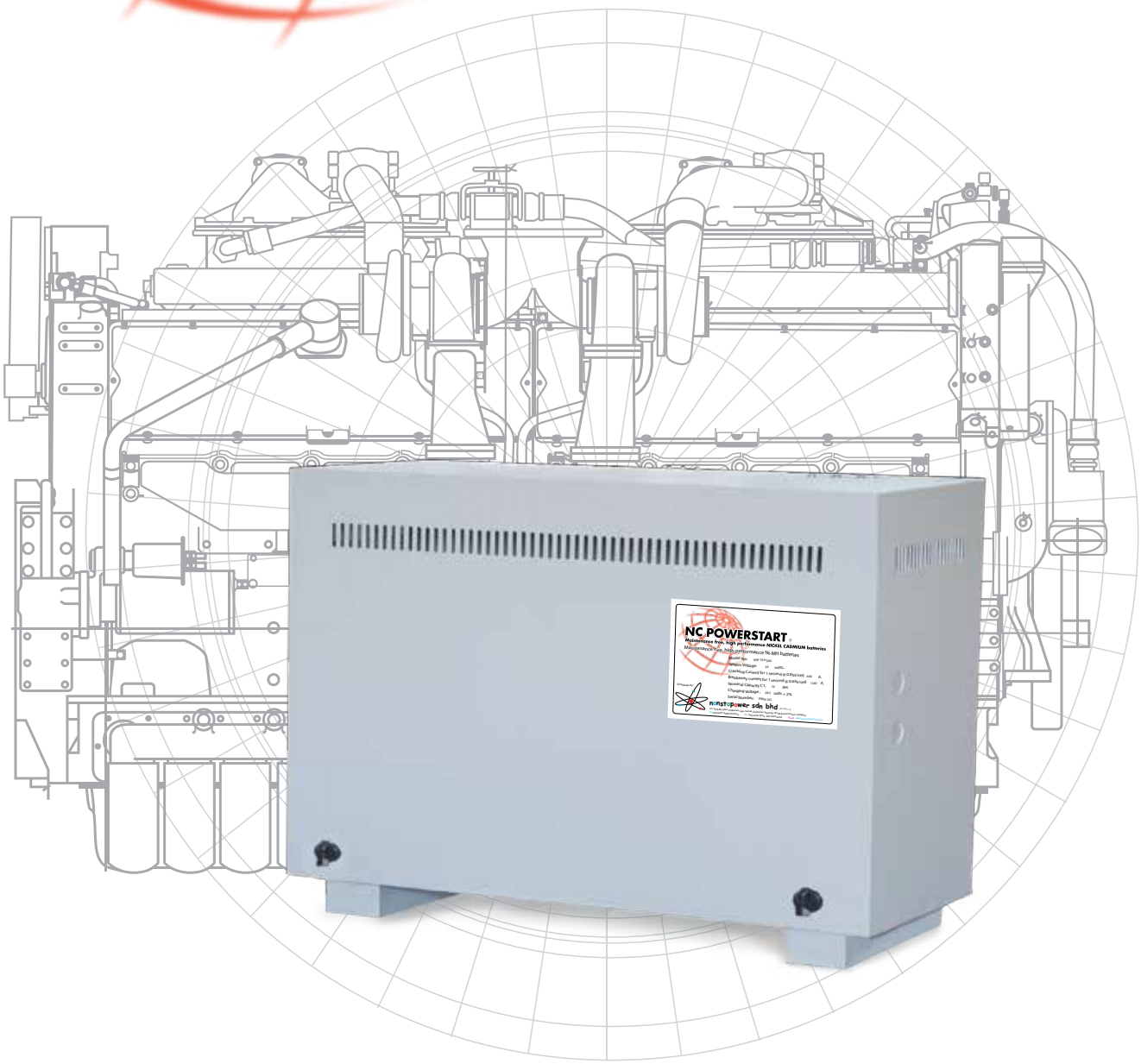
NC POWERSTART®

Maintenance free, ultra high performance NICKEL CADMIUM batteries



nonstopower sdn bhd (822490-P)

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Ultra Powerful Design for engine starting application

NC POWERSTART ® maintenance free Nickel Cadmium block battery with its unique electrochemistry formula together with customized heavy duty construction is specifically designed for diesel engine starting as emergency back up power. The proven reliability over century on Nickel Cadmium batteries technology complied to most tender specifications offer you cost-effective alternative for your various projects.

Ultra high performance - best for engines

NC POWERSTART ® with similiar capacity deliver 66% extra cranking current for 90 seconds to an end voltage of 0.85 Volts per cell compared to traditional high rate Vented Nickel Cadmium battery commonly used in the market.

Perfect battery sizing

NC POWERSTART ® designed with modular blocks battery ensured perfect battery sizing for various engines range. Unique modular design offer users speedy delivery, flexibility and field upgradeable.

Simple installation and handling

NC POWERSTART ® supply fully assembled, light weight and compact size in a well design epoxy powder coated metal cubicle. They are non-spillable, non-corrosive and no dangerous gas emission as compared to traditional Vented Nickel Cadmium batteries.

Maintenance free for life

NC POWERSTART ® equipped with valve regulated gas recombination nickel cadmium battery technology do not require periodical checking of battery electrolyte level, topping up and corrosion treatment hence reduce operation cost to a very minimum.

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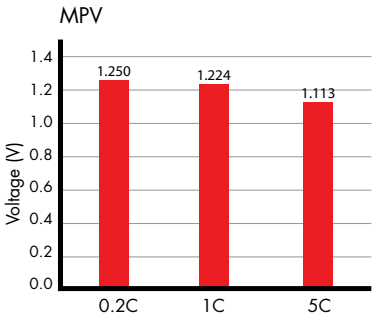
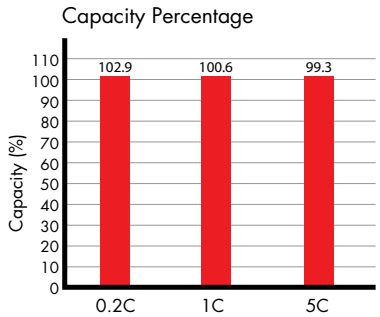
Performance Characteristics

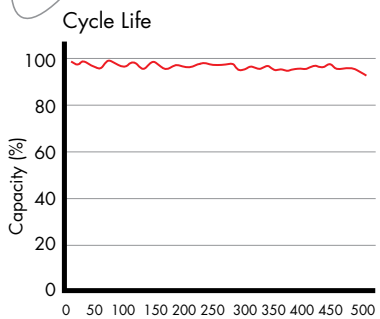
Single Cells



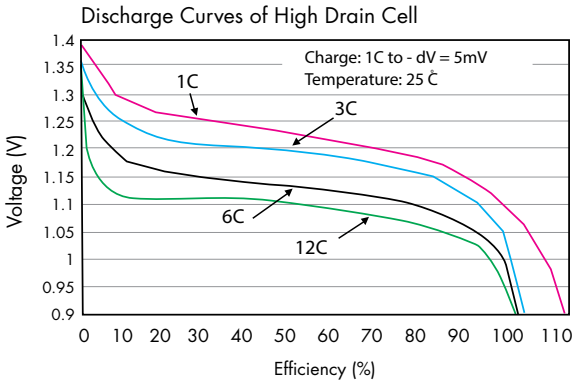
Discharge Current
Charge: 0.1C x 16 hrs
Discharge: 0.2C,1C,5C to 1.0V
Temperature: 25°C

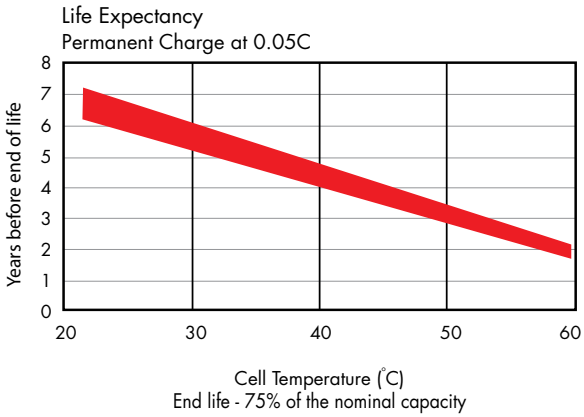


Discharge Current
Charge: 0.1C x 16 hrs
Discharge: 0.2C,1C,5C to 1.0V
Temperature: 25°C



No. of Cycles
Charge: 0.5C x 126 mins
Discharge: 0.5C to 1.0V
Temperature: 25°C





Battery Packs

Ultra high drain series

Ultra high drain series is specially customized for powerful delivery of electrical energy on demand. It was jointly developed through an integration of comprehensive NI-CD battery technology. Improvements in the positive and negative electrode technology and in the current collecting system have further lowered the internal resistance and greatly enhance the 12C discharge characteristics of the high drain series batteries.

Excellent ultra high current discharge characteristics

It is designed to meet the need for high current discharge especially for engine cranking and can deliver a high current exceeding 12C.

Reliable, long cycle life

In addition to excellent ultra high rate discharge performance, ultra high drain series batteries also provide hundreds of charge/discharge cycles, showing reliable cycle life characteristics.

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Battery Specifications

Battery Packs

Model No.	Nominal Voltage (V)	Capacity* AH at 5 hour rate	Weight (kg)	Cranking Current (A) 90 seconds @ V min 0.85V/cell	Breakaway Current (A) 1 second @ Vmin 0.65V/cell	Dimension (mm) H x W x D
NCP 15 H10X	12	15	20	189	396	520 x 330 x 260
NCP 20 H10X	12	20	22	252	528	520 x 330 x 260
NCP 25 H10X	12	25	23	315	660	520 x 330 x 260
NCP 30 H10X	12	30	25	378	793	520 x 330 x 260
NCP 15 H20X	24	15	24	189	396	520 x 330 x 260
NCP 20 H20X	24	20	27	252	528	520 x 330 x 260
NCP 25 H20X	24	25	30	315	660	520 x 330 x 260
NCP 30 H20X	24	30	33	378	793	520 x 600 x 260
NCP 35 H20X	24	35	36	442	925	520 x 600 x 260
NCP 40 H20X	24	40	38	505	1057	520 x 600 x 260
NCP 45 H20X	24	45	41	568	1189	520 x 600 x 260
NCP 50 H20X	24	50	44	631	1321	520 x 600 x 260
NCP 55 H20X	24	55	47	694	1453	520 x 600 x 260
NCP 60 H20X	24	60	59	757	1586	520 x 900 x 260
NCP 65 H20X	24	65	62	820	1718	520 x 900 x 260
NCP 70 H20X	24	70	65	883	1850	520 x 900 x 260
NCP 75 H20X	24	75	67	946	1982	520 x 900 x 260
NCP 80 H20X	24	80	70	1010	2114	520 x 900 x 260
NCP 85 H20X	24	85	73	1073	2246	520 x 900 x 260
NCP 90 H20X	24	90	82	1136	2379	520 x 1200 x 260
NCP 95 H20X	24	95	85	1199	2511	520 x 1200 x 260
NCP 100 H20X	24	100	88	1262	2643	520 x 1200 x 260
NCP 105 H20X	24	105	91	1325	2775	520 x 1200 x 260

Remarks: *Capcity test condition: charge at 0.1C for 16 hrs. rest 15 mins, then discharge at 0.2C to 1.0V per cells.
Specification subject to change without prior notice for product improvement.

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