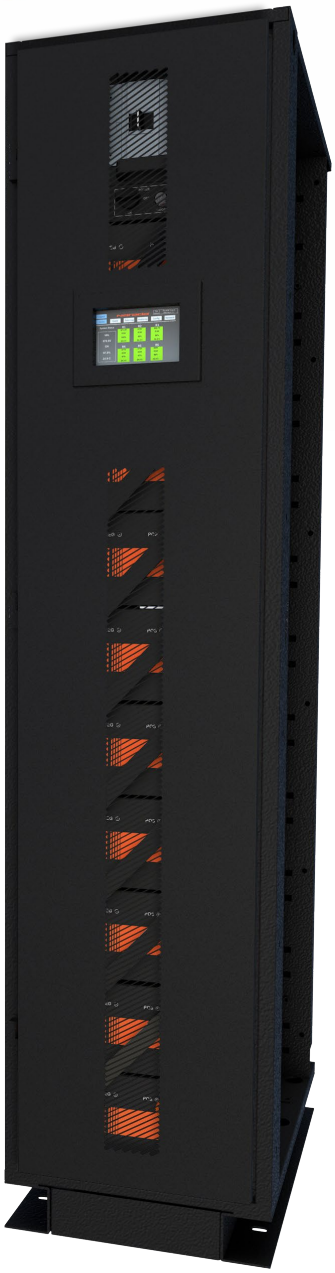
High-Rate Data Center UPS Battery System

144/160 Cell 461/512VDC



MPLhP51255

The MPINarada MPL High Power Series Lithium Iron Phosphate (LFP) battery systems are designed for high-rate discharges and cover a wide range of UPS solutions. MPLhP systems can operate in temperature ranges up to 35C, while delivering exceptional warranty, safety, and life.

FEATURES

- System & String Level Protection
- 15-Year Design Life Solution Delivering Up to 188kW
- Lithium Iron Phosphate (LFP) Chemistry Safety
- Standard System HMI Display / Control
- Discharge Down to 3 minutes
- Flexible 51.2V Module Design
- Breaker Standard with BMS Controlled Contactors
- Dry Contact Alarming for UPS Charge and Discharge Control
- VRLA Battery Replacement Ready
- DC Self Powered BMS, No AC Power Drop Required
- Prepopulated System, No On-site Module Assembly

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High Power Lithium UPS Battery System

MODULE

SYSTEM

SPECIFICATIONS

Part Number	NHPL-51255	5125525 (9M)	5125528 (10M)
Nominal Voltage	51.2 V	461 V	512 V
Rated Capacity Ah/kWh	55/2.82	55/25.3	55/28.2
Charge Voltage Range	56.5-57.6	508.5-518.4	565-576
Discharge End Voltage Range	44.0-46.5	396-418.5	440-465

CONTAINER and ENVIRONMENT

Dimensions (mm / in)	Width	392 / 15.5	500 / 19.7	500 / 19.7
	Depth	435 / 17.2	710 / 28.0	710 / 28.0
	Height	165 / 6.5	1984 / 78.1	2138 / 84.2
Weight (Kg / lbs)		35 / 77	500 / 1,100	540 / 1,188

TEMPERATURE RANGE

Charge	0°C to 55°C
Discharge	-20°C to 55°C
Storage	0°C to 40°C
Operating	15°C to 35°C

(6) Cabinet System – 1,128kW

OPERATING PARAMETERS

- 450A Maximum current 30 seconds
- 430A continuous current (Constant Power Discharge)
- 169kW (9M) /188kW (10M) Continuous Power

CERTIFICATIONS

- Seismic Certified to CBC/IBC Zone 4 /IF 1.5
- UL1964 cell, UL1973 System Certified
- UL9540A Tested
- UN38 Certified Compliant
- IEC 60182

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