## stored energy solutions for a demanding world

# Model: 48NPFC200

Narada NPFC series is a complete range of 48V LiFePO<sub>4</sub>(Lithium Iron phosphate) battery products, for a wide variety of applications, such as telecom base station, UPS, renewable energy system, etc., with advanced life, standard size, light weight and strong environmental adaptability.

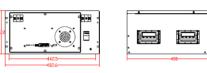
### Battery Management System(BMS)

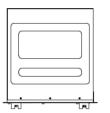
For standard Narada lithium battery module, BMS is applied to monitor voltage, current, temperature of cells and module, take protections against over-charge, over-discharge, over-current, overtemperature,under-temperature and short circuit, etc., and provide cell balancing and current limitation during charging process to ensure a reliable safety and excellent performance.

Meantime, Narada supply customized UI software for BMS communication via RS485 to set parameters or read monitoring data.



### **Dimensions-mm**







### Specifications

		1
Battery Specific	ation	15S
Rated Voltage		48V
Rated Capacity		200Ah (0.2C to 40.5V @ 25°C)
Discharge Current (Max.)		100A
Discharge End V	/oltage	40.5V
Charge Current (Recomm.)		40A
Charge Current (Max.)		100A
Charge Voltage		54.0±0.5V
	Width	442.5 mm
Dimensions	Depth	480 mm
	Height	222 mm
Typical Weight		76.0±1Kg
Layout of Front	Pannel	
Status Indicators		SOC / ALM / RUN
Communication Ports		RS232 / RS485*2
Communication in Parallel		8 modules in parallel maximum
Reset Key		Available
Terminal Size		M8 (Screw size)
LCD Screen		Optional
Breaker		Available
Dry contact		Optional
Operation Envi	ronments	
		Discharge -20 to + 60°C
Temperature Ra	nge	Charge 0 to + 60°C
		Storage 0 to + 40 °C
		Discharge +15 to + 35°C
Temperature Recommendation		Charge +15 to + 35℃
		Storage +15 to + 30°C
Humidity		5% to 95%



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**NPFC Series** 

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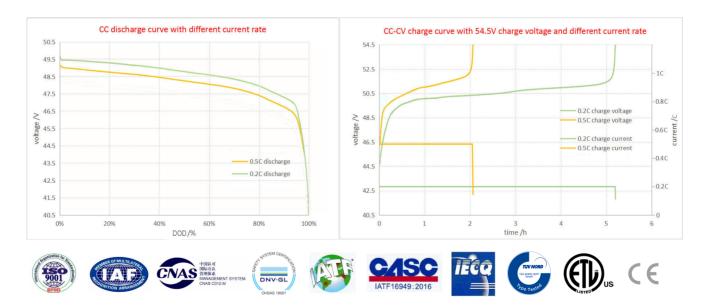
## Constant Current Discharge Characteristics /for one module (25°C,77°F)

Current(A)	0.1C	0.2C	0.33C	0.5C/100A
End voltage Time		H	Hours	
46.5V	9.73	4.85	2.93	1.88
45.0V	9.92	4.96	3.00	1.96
43.5V	10.05	5.03	3.05	2.00
42.0V	10.13	5.07	3.08	2.01
40.5V	10.18	5.10	3.09	2.03

## Discharge Data with Constant Power /for one module (25°C,77°F)

Power	480W	960W	1580W	2300W	3800W	4400W
End voltage Time			Hours			
46.5V	18.93	9.39	5.60	3.70	2.00	1.64
45.0V	19.27	9.58	5.78	3.91	2.25	1.89
43.5V	19.48	9.69	5.86	3.95	2.30	1.94
42.0V	19.62	9.77	5.90	4.00	2.33	1.95
40.5V	19.70	9.82	5.94	4.02	2.34	1.97

## **Performance Curves**



#### **Disclaimers of warranties:**

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