stored energy solutions for a demanding world

Model: 48NPFC150

NPFC Series

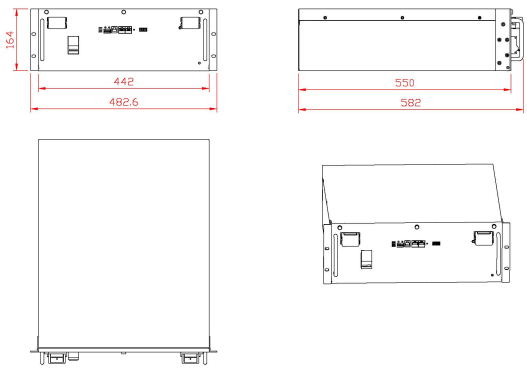
Narada NPFC series is a complete range of 48V $LiFePO_4$(Lithium Iron phosphate) battery products, for a wide variety of applications, such as telecom base station, UPS, renewable energy system, etc., with advanced life, standard size, light weight and strong environmental adaptability.

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, over-temperature,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 customer UI software for BMS communication via RS485 to set parameters or read monitoring data.

Dimensions–mm



Specifications

Battery Specification		15S	
Rated Voltage		48V	
Rated Capacity		150Ah (0.2C to 40.5V @ 25℃)	
Discharge Current (Max.)		100A	
Discharge End Voltage		40.5V	
Charge Current (Recomm.)		30A	
Charge Current (Max.)		100A	
Charge Voltage		54.0±0.5V	
Dimensions	Width	442 mm	
	Depth	550 mm	
	Height	164mm	
Typical Weight		56±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		M6 (Screw size)	
LCD Screen		Optional	
Breaker		Available	
Dry contact		Available	
Operation Environments			
Temperature Range		Discharge	-20 to + 60℃
		Charge	0 to + 60℃
		Storage	0 to + 40℃
Temperature Recommendation		Discharge	+15 to + 35℃
		Charge	+15 to + 35℃
		Storage	+15 to + 30℃
Humidity		5% to 95%	

NARADA POWER SOURCE CO.,LTD.
Building A, No. 822, Wen'er West Road, Hangzhou, Zhejiang, China

Tel:+86-571-56975980
E-mail:intl@narada.biz
Website: en.naradapower.com

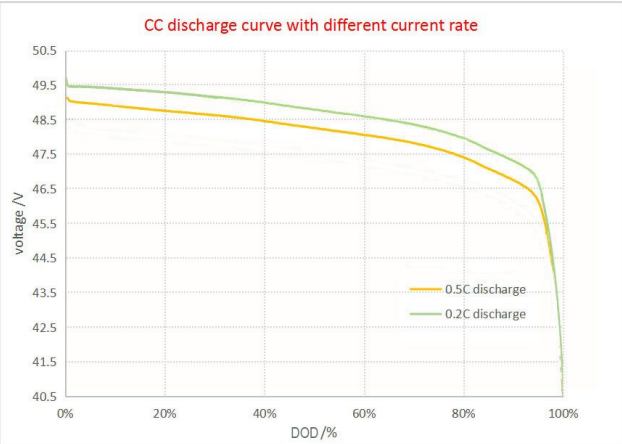
Constant Current Discharge Characteristics /for one module (25°C,77°F)

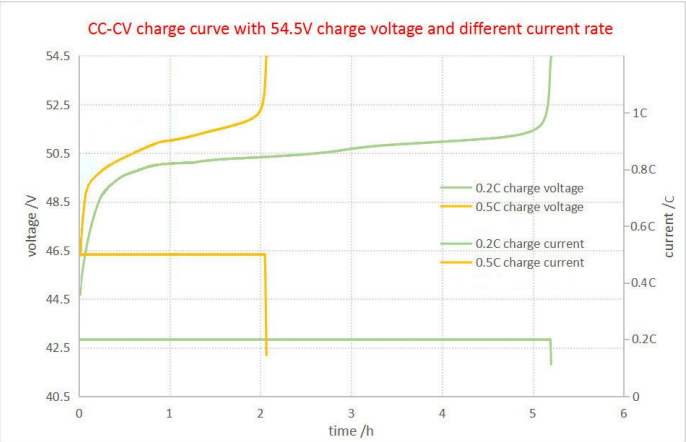
End voltage / Current(A) / Time	0.1C	0.2C	0.33C	0.5C	0.67C /100A
	Hours				
46.5V	9.63	4.80	2.87	1.86	1.40
45.0V	9.82	4.91	2.94	1.94	1.46
43.5V	9.95	4.98	2.99	1.98	1.48
42.0V	10.03	5.02	3.02	1.99	1.49
40.5V	10.08	5.05	3.03	2.01	1.50

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

End voltage / Power / Time	480W	960W	1580W	2400W	3800W	4400W
	Hours					
46.5V	14.20	7.04	4.20	2.77	1.50	1.23
45.0V	14.45	7.19	4.33	2.93	1.69	1.42
43.5V	14.61	7.27	4.39	2.97	1.72	1.46
42.0V	14.72	7.33	4.43	3.00	1.74	1.47
40.5V	14.78	7.36	4.45	3.01	1.76	1.48

Performance Curves





Disclaimers of warranties:

Copyright © Narada power source Co., Ltd. 2019. All rights reserved.

The information in this document may contain predictive statements including, without limitation, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements.

No portion of the information or documents may be reproduced in any form or by any means without the prior written consent of Narada.
All the data in datasheet is valid for single module operation. For parallel operation please ask Narada technical for guidelines.

Any datasheet issued previously is invalid when new version releases.