## stored energy solutions for a demanding world

# Model: 48NPFC100 (19")

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,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 customized upper computer software for BMS communication via RS485 to set parameters or read monitoring data.

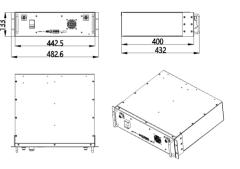
### Specifications

Battery Specification

Battery Specification		155					
Rated Voltage	Rated Voltage		48V				
Rated Capacity	Rated Capacity		100Ah (0.5C to 40.5V @ 25℃)				
Discharge Current	Discharge Current (Max.)		100A				
Discharge End Vo	Discharge End Voltage		40.5V				
Charge Current (F	Charge Current (Recomm.)		20A				
Charge Current (M	Charge Current (Max.)		100A				
Charge Voltage			54.0±0.5V				
	Width	443 mm					
Dimensions	Depth	400 mm					
	Height	133 mm					
<b>T</b> : 114/ : 17	-						
Typical Weight	Typical Weight		Approximate 39.2 kg				
Layout of Front I	Pannel						
Status Indicators	Status Indicators		SOC / ALM / RUN				
Communication P	Communication Ports		RS232 / RS485*2				
Communication in	Communication in Parallel		8 modules in maximum				
Reset Key			Available				
Terminal Size	Terminal Size		M8 (Screw size)				
LCD Screen			Optional				
	Breaker		Optional				
Dry Contact	Dry Contact		Optional				
Operation Enviro	onments						
		Discharge	-20 to + 60°C				
Temperature Rang	ge	Charge	0 to + 60℃				
		Storage	0 to + 40 ℃				
	mmendation	Discharge	+15 to + 35℃				
Temperature Reco		Charge	+15 to + 35 ℃				
		Storage	+15 to + 30℃				
Humidity	Humidity						



### Dimensions-mm







# Model: 48NPFC100 (19")

# NPFC Series

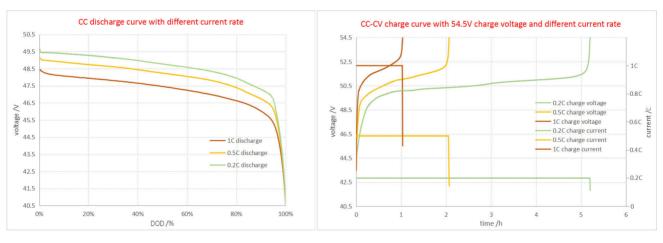
## Constant Current Discharge Characteristics for one module (25 °C,77 °F)

Current(A) End voltage Time	0.1C	0.15C	0.2C	0.25C	0.3C Hours	0.4C	0.5C	0.6C	0.8C
46.5V	9.56	6.35	4.75	3.78	3.12	2.29	1.79	1.45	1.02
45.0V	9.76	6.49	4.85	3.87	3.21	2.39	1.89	1.57	1.15
43.5V	9.89	6.58	4.92	3.92	3.25	2.42	1.93	1.60	1.19
42.0V	9.98	6.64	4.96	3.96	3.29	2.45	1.94	1.61	1.21
40.5V	10.04	6.68	5.00	3.99	3.31	2.46	1.96	1.63	1.22

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

Power End voltage Time	450W	900W	1350W	1800W	2250W	2700W	3150W
Life voltage				Hours			
46.5V	10.35	5.11	3.36	2.46	1.92	1.53	1.27
45.0V	10.55	5.22	3.45	2.55	2.02	1.66	1.40
43.5V	10.66	5.28	3.49	2.58	2.06	1.69	1.43
42.0V	10.75	5.32	3.52	2.61	2.07	1.70	1.45
40.5V	10.79	5.35	3.54	2.62	2.09	1.72	1.46

## 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.