stored energy solutions for a demanding world

Model: 48NPFC100 (19")

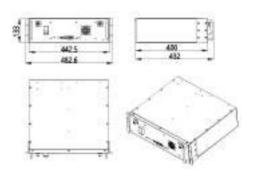
Narada NPFC series is a complete range of 48V LiFePO₄ (Lithium Iron Phosphate) battery products, for a wide variety of applications, such as telecom base station, UPS, renewable energy system, etc., with advanced life, standard size, light weight and strong environmental adaptability.

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.



Dimensions-mm



Specifications

Battery Specific	ation		15S				
Rated Voltage	Rated Voltage		48V				
Rated Capacity			100Ah (0.5C to 40.5V @ 25℃)				
Discharge Curre	Discharge Current (Max.)		100A				
Discharge End V	Discharge End Voltage		40.5V				
Charge Current	Charge Current (Recomm.)		20A				
Charge Current	Charge Current (Max.)		100A				
Charge Voltage			54.0±0.5V				
	Width		443 mm				
Dimensions	Depth		400 mm				
	Height		133 mm				
Typical Weight	Typical Weight		Approximate 39.2 kg				
Layout of Front	Pannel						
Status Indicators	Status Indicators		SOC / ALM / RUN				
Communication	Communication Ports		RS232 / RS485*2				
Communication	Communication in Parallel		8 modules in maximum				
Reset Key	Reset Key		Available				
Terminal Size	Terminal Size		M8 (Screw size)				
LCD Screen	LCD Screen		Optional				
	Breaker		Optional				
Dry Contact			Optional				
Operation Envi	ronments						
			Discharge	-20 to + 60 °C			
Temperature Ra	nge		Charge	0 to + 60°C			
			Storage	0 to + 40 ℃			
			Discharge	+15 to + 35℃			
Temperature Re	Temperature Recommendation		Charge	+15 to + 35 ℃			
			Storage	+15 to + 30℃			
Humidity	Humidity		5% to 95%				
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NPFC Series

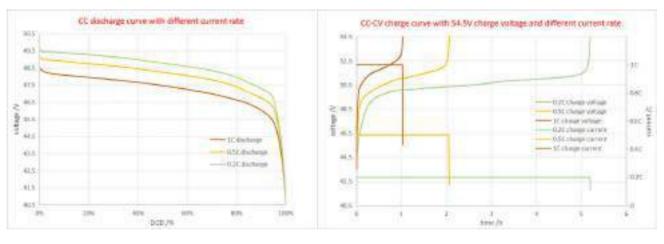
Constant Current Discharge Characteristics for one module (25 °C,77 °F)

Current(A) End voltage Time	0.1C	0.15C	0.2C	0.25C	0.3C	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)

End voltage Time	Power	450W	900W	1350W	1800W	2250W	2700W	3150W
End 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





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Any datasheet issued previously is invalid when new version releases.