

stored energy solutions for a demanding world



Model: 48NPFC80

NPFC Series

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.

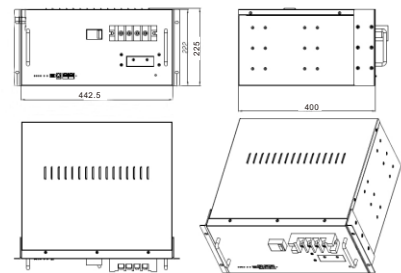


Battery Management System(BMS)

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 RS232 or RS485 to set parameters or read monitoring data.

Dimensions-mm



Specifications

Battery Specification		
Rated Voltage		48V
Rated Capacity		80Ah (0.5C to 40.5V @ 25 °C)
Discharge Current (Max.)		80A
Discharge End Voltage		40.5V
Over-Discharge Protection Current		100±5A
Charge Current (Max.)		80A
Charge Voltage		54±0.5V
Dimensions	Width	442.5 mm (17.42 inches)
	Depth	400.0 mm (15.75 inches)
	Height	225 mm (8.86 inches, 5U)
Typical Weight		44.0Kg
Layout of Front Panel		
Status Indicators		SOC / ALM / RUN
Communication Ports		RS232 / RS485*2
Communication in Parallel		15 modules in maximum
Reset Key		Available
Terminal Size		M6 (Screw size)
LCD Screen		Optional
Breaker		Available
Operation Environments		
Temperature Range	Discharge	-20 to + 60 °C
	Charge	0 to + 60 °C
	Storage	0 to + 40 °C
Temperature Recommendation	Discharge	+15 to + 35 °C
	Charge	+15 to + 35 °C
	Storage	+15 to + 30 °C
Humidity		5% to 95%



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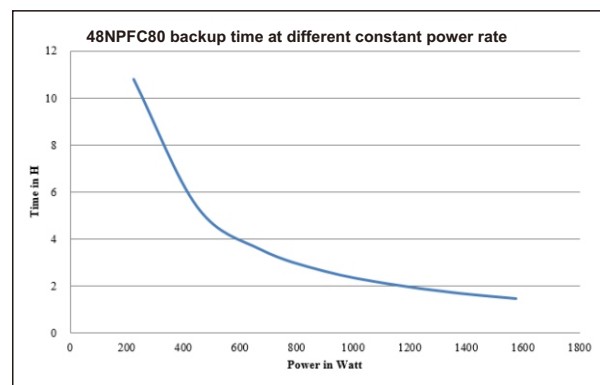
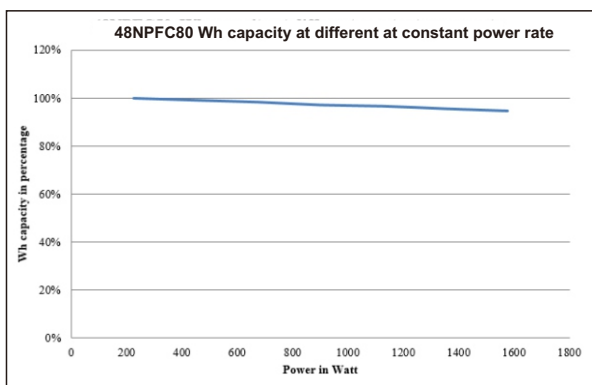
Constant Current Discharge Characteristics (25°C,77°F)

End voltage	Current(A)									
	0.1C	0.15C	0.2C	0.25C	0.3C	0.4C	0.5C	0.6C	0.8C	
	Time									
	Hours									
46.5	9.59	6.34	4.71	3.70	3.02	2.21	1.70	1.34	0.87	
45.0	9.78	6.49	4.85	3.87	3.20	2.39	1.89	1.55	1.13	
43.5	9.91	6.57	4.92	3.92	3.26	2.44	1.95	1.61	1.19	
42.0	9.99	6.64	4.97	3.96	3.29	2.47	1.97	1.64	1.22	
40.5	10.05	6.68	5.00	3.99	3.32	2.49	1.98	1.66	1.24	
39.0	10.08	6.71	5.03	4.01	3.34	2.50	2.00	1.66	1.24	

Discharge Data with Constant Power (25°C,77°F)

End voltage	Power							
	358W	715W	1080W	1430W	1800W	2145W	2500W	
	Time							
	Hours							
46.50	10.46	5.06	3.21	2.34	1.76	1.40	1.13	
45.00	10.65	5.21	3.39	2.52	1.97	1.62	1.35	
43.50	10.77	5.28	3.45	2.57	2.03	1.68	1.43	
42.00	10.85	5.32	3.48	2.60	2.05	1.71	1.45	
40.50	10.90	5.35	3.50	2.61	2.07	1.71	1.46	
39.00	10.93	5.37	3.51	2.63	2.08	1.73	1.47	

Performance Curves



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