

stored energy solutions for a demanding world



Model: Micro Box 48NPFC10

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.

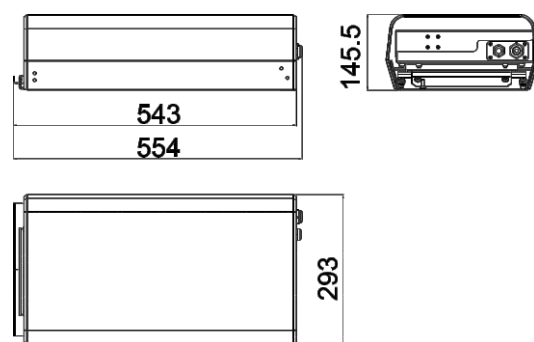


Battery Management System(BMS)

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		10Ah (C ₅ , 0.2C to 40.5V at 25°C)
Discharge Current (Max.)		10A
Discharge End Voltage		40.5V
Charge Current (Recomm.)		2A
Charge Current (Max.)		10A
Charge Voltage		54±0.5V
Dimensions	Width	554mm
	Depth	293mm
	Height	145.5 mm
Typical Weight		18.6 kg
Layout of Front Panel		
Communication Ports		Rs485
Communication in Parallel		16 modules in maximum
Terminal Size		10 sqmm
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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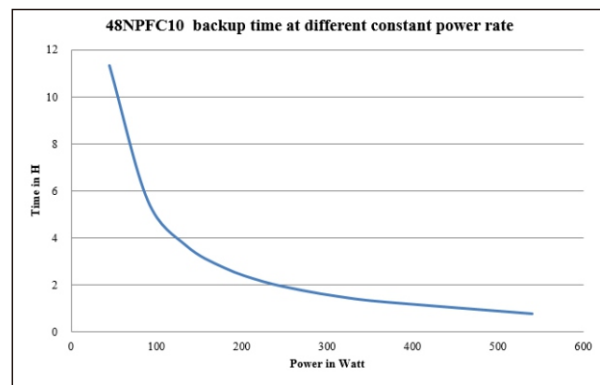
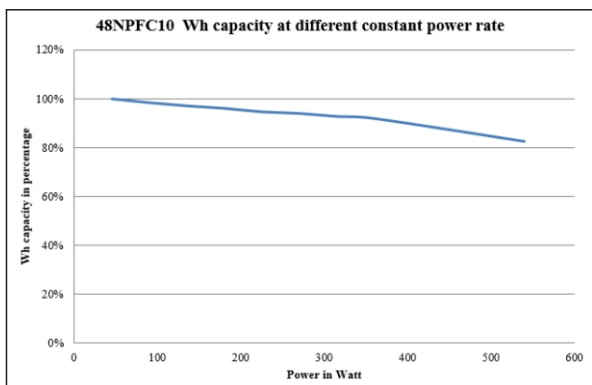
Constant Current Discharge Characteristics (25°C,77°F)

End voltage	Current(A)										1C
	Time										
	0.1C	0.15C	0.2C	0.25C	0.3C	0.4C	0.5C	0.6C	0.8C	1C	Min
46.5V	9.61	6.36	4.74	3.80	3.14	2.21	1.68	1.31	1.02	41.3	
45.0V	9.79	6.49	4.85	3.89	3.23	2.39	1.88	1.53	1.17	52.6	
43.5V	9.91	6.59	4.93	3.98	3.27	2.45	1.94	1.60	1.21	55.7	
42.0V	10.00	6.65	4.97	3.97	3.30	2.48	1.97	1.63	1.23	57.0	
40.5V	10.05	6.69	5.00	4.00	3.33	2.50	1.99	1.65	1.24	57.9	
39.0V	10.07	6.71	5.02	4.02	3.34	2.50	2.00	1.66	1.24	58.3	

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

End voltage	Power									540W
	Time									
	45W	90W	135W	180W	225W	270W	315W	360W	540W	Min
46.5V	10.89	5.34	3.50	2.55	1.96	1.57	1.29	1.07	--	
45.0V	11.09	5.45	3.59	2.65	2.07	1.70	1.44	1.24	0.5	
43.5V	11.22	5.52	3.63	2.68	2.12	1.73	1.47	1.27	33.1	
42.0V	11.30	5.56	3.66	2.71	2.13	1.76	1.49	1.30	43.2	
40.5V	11.35	5.59	3.68	2.73	2.15	1.78	1.50	1.30	46.5	
39.0V	11.38	5.60	3.69	2.74	2.16	1.79	1.51	1.32	47.9	

Performance Curves



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