stored energy solutions for a demanding world

Model: 48NPFC50

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. The battery life time at standby mode can be ⩾10 years @20-25℃ .

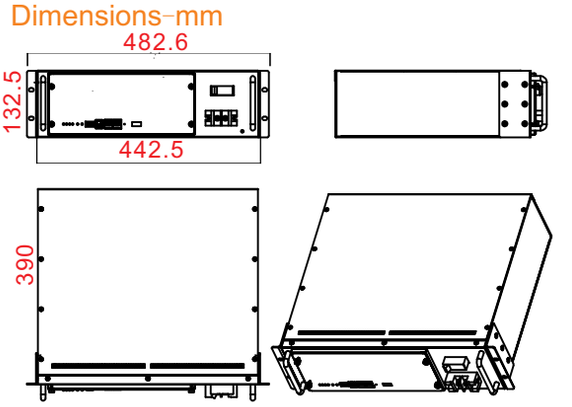


Battery Management System(BMS)

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			50Ah (C_5, 0.2C to 40.5V @ 25 °C)
Discharge Current (Max.)			50A
Discharge End Voltage			40.5V
Charge Current (Recomm.)			10A
Charge Current (Max.)			50A
Charge Voltage			54±0.5V
Dimensions	Width		442.5 mm
	Depth		390.0 mm
	Height		132.5 mm (3U)
Typical Weight			29.5 Kg
Layout of Front Pannel			
Status Indicators			SOC / ALM / RUN
Communication Ports			RS232 / RS485*2
Communication in Parallel			8 modules in maximum
Reset Key			Available
Terminal Size			M6 (Screw size)
LCD Screen			Optional
Breaker			Available
Dry contact			NC
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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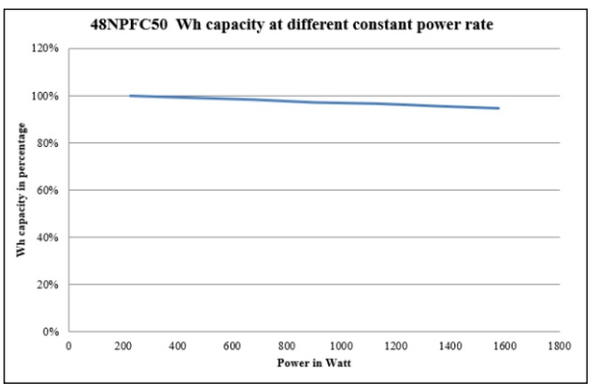
Constant Current Discharge Characteristics (25°C,77°F)

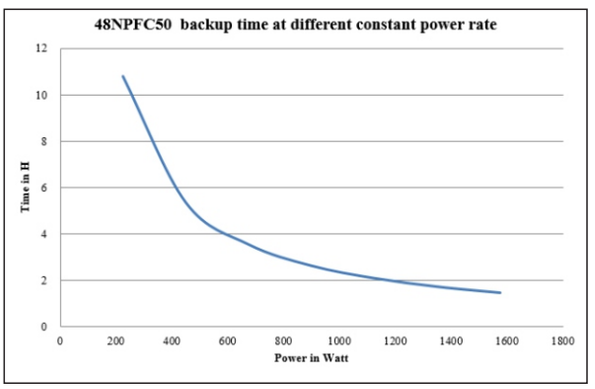
End voltage \ Current(A) / Time	0.1C	0.15C	0.2C	0.25C	0.3C	0.4C	0.5C	0.6C	0.8C	1C
					Hours					Min
46.5	9.56	6.35	4.75	3.78	3.12	2.29	1.79	1.45	1.02	42.2
45.0	9.76	6.49	4.85	3.87	3.21	2.39	1.89	1.57	1.15	53.2
43.5	9.89	6.58	4.92	3.92	3.25	2.42	1.93	1.60	1.19	55.5
42.0	9.98	6.64	4.96	3.96	3.29	2.45	1.94	1.61	1.21	56.4
40.5	10.04	6.68	5.00	3.99	3.31	2.46	1.96	1.63	1.22	56.9
39.0	10.08	6.70	5.02	4.01	3.33	2.48	1.97	1.64	1.22	57.3

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

End voltage \ Power / Time	225W	450W	675W	900W	1125W	1350W	1575W	1800W
				Hours				
46.5	10.35	5.11	3.36	2.46	1.92	1.53	1.27	1.06
45.0	10.55	5.22	3.45	2.55	2.02	1.66	1.40	1.21
43.5	10.66	5.28	3.49	2.58	2.06	1.69	1.43	1.24
42.0	10.75	5.32	3.52	2.61	2.07	1.70	1.45	1.25
40.5	10.79	5.35	3.54	2.62	2.09	1.72	1.46	1.27
39.0	10.82	5.37	3.55	2.63	2.09	1.73	1.47	1.28

Performance Curves





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48NPFC50-2.0-EN (YN) December 2017 Aug. to technical modification. E. & O. E.

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