

stored energy solutions for a demanding world

Narada

Model: IPF48100 (3U)

IPF Series

Narada IPF 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.

Intelligent Battery Management System(BMS)

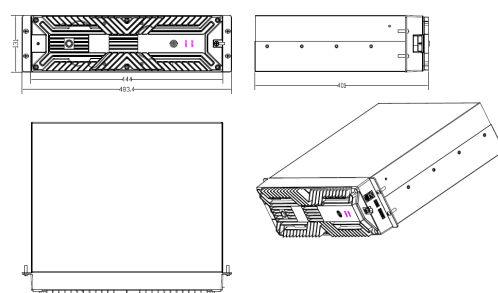
For intelligent Narada lithium battery module, BMS is applied to monitor voltage, current, temperature of cells and module, take protections against over-charge, over-discharge, over-current, over-temperature, under-temperature and short circuit, etc., and provide cell balancing; The BMS can adjust the charge and discharge current according to the battery temperature, voltage, SOC.

Operating modes include adaptive discharge, lithium priority discharge, constant voltage discharge, it is suitable for multi-group parallel operation, mixed use of new and old lithium batteries, mixed use of Lead-acid and lithium batteries.

Meantime, Narada supply customized UI (User Interface) software for BMS communication via RS485 to set parameters or read monitoring data.



Dimensions—mm



Battery Specification		15S
Rated Voltage		48V
Rated Capacity		100Ah (0.2C to 40.5V @ 25 °C)
Discharge Current (Max.)		100A
Discharge End Voltage		40.5V
Charge Current (Recomm.)		20A
Charge Current (Max.)		100A
Charge Voltage		54.0±0.5V
Dimensions	Width	444mm
	Depth	401mm
	Height	131mm
Typical Weight		Approximate 40 Kg
Layout of Front Pannel		
Status Indicators		SOC / ALM / RUN
Communication Ports		CAN / RS485*2
Communication in Parallel		32 modules in parallel maximum
Dry contact		Available
Terminal Size		M5 (Screw size)
Tact Switch		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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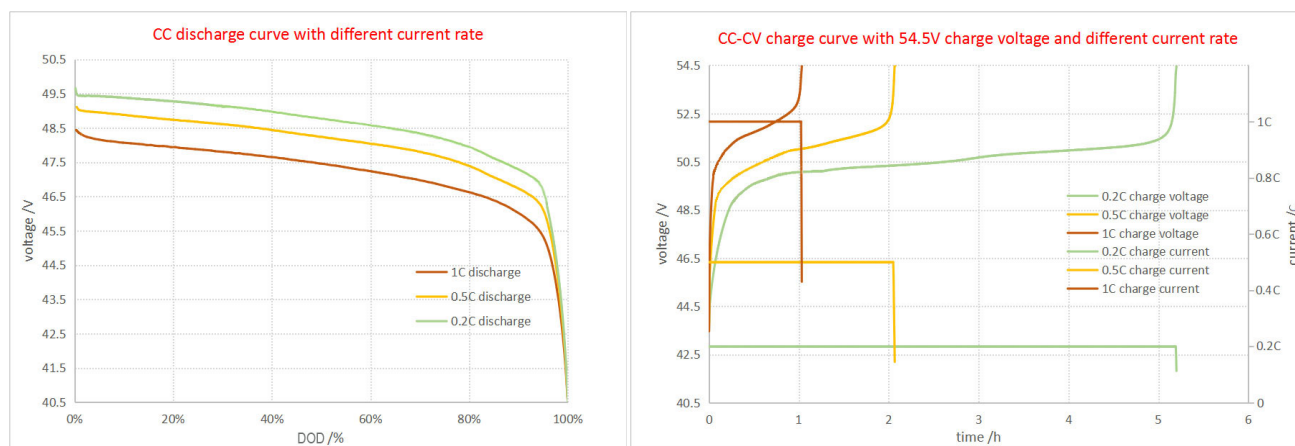
Constant Current Discharge Characteristics /for one module (25°C,77°F)

End voltage	Current(A)	0.1C	0.2C	0.33C	0.5C	0.8C	1.0C
	Time						
	Hours						
46.5V		9.73	4.85	2.93	1.90	1.15	0.90
45.0V		9.92	4.96	3.00	1.96	1.20	0.93
43.5V		10.05	5.03	3.05	2.00	1.23	0.96
42.0V		10.13	5.07	3.08	2.02	1.25	0.98
40.5V		10.18	5.10	3.09	2.03	1.26	1.00

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

End voltage	Power	480W	960W	1580W	2400W	3800W	4400W
	Time						
	Hours						
46.5V	9.83	4.89	2.92	1.85	1.05	0.82	
45.0V	10.02	4.99	3.01	1.91	1.11	0.86	
43.5V	10.13	5.05	3.05	1.95	1.15	0.90	
42.0V	10.21	5.09	3.08	1.98	1.18	0.93	
40.5V	10.25	5.12	3.09	2.00	1.20	0.95	

Performance Curves



Disclaimers of warranties:

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Any datasheet issued previously is invalid when new version releases.