stored energy solutions for a demanding world

Model: 51.2NESR100

NESR Series

Narada NESR 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.

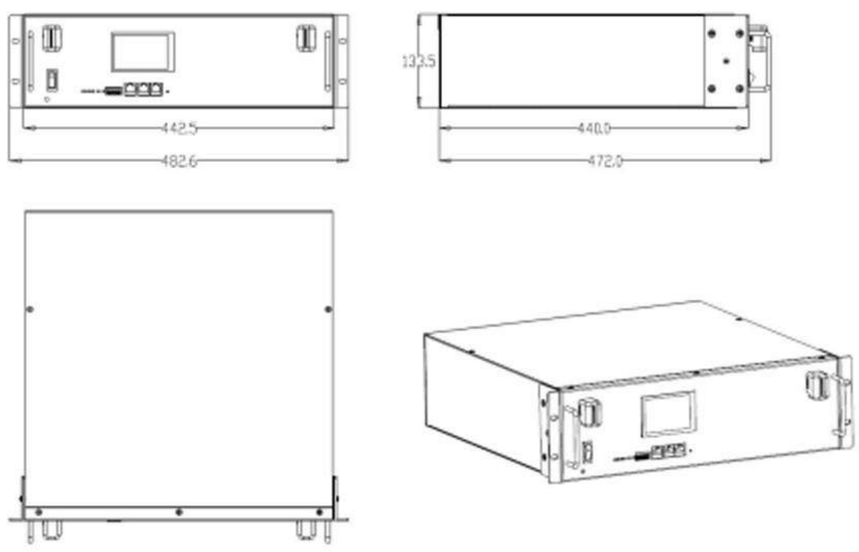


Battery Management System(BMS)

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 UI software for BMS communication via RS485 to set parameters or read monitoring data.

Dimensions-mm



Specifications

Battery Specification		**16S**
Rated Voltage		51.2V
Rated Capacity		100Ah (0.2C to 43.2V @ 25°C)
Discharge Current (Max.)		100A
Discharge End Voltage		43.2V
Charge Current (Recomm.)		20A
Charge Current (Max.)		100A
Charge Voltage		57.6±0.5V
Dimensions	Width	442.5 mm
	Depth	440 mm
	Height	133.5 mm
Typical Weight		42.0±1Kg
Layout of Front Pannel		
Status Indicators		SOC / ALM / RUN
Communication Ports		CAN / RS485*2
Communication in Parallel		Max 16 modules in parallel
Reset Key		Available
Terminal Size		M8 (Screw size)
LCD Screen		Available
Rocker Switch		Available
Dry contact		Available
Gyro/Communication Anti-theft		Optional
IP Level		IP20
Operation Environments		
Temperature Range	Discharge	-20 to + 60℃
	Charge	0 to + 60℃
	Storage	0 to + 40℃
Temperature Recommendation	Discharge	+15 to + 35℃
	Charge	+15 to + 35℃
	Storage	+15 to + 30℃
Humidity		5% to 95%

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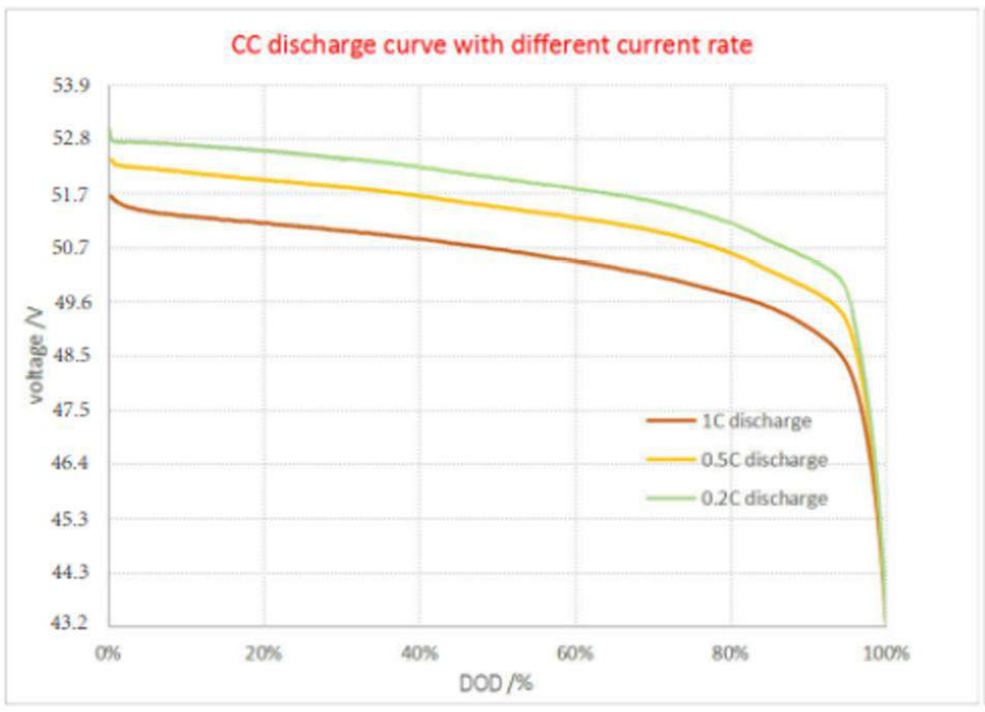
Constant Current Discharge Characteristics /for one module (25°C,77°F)

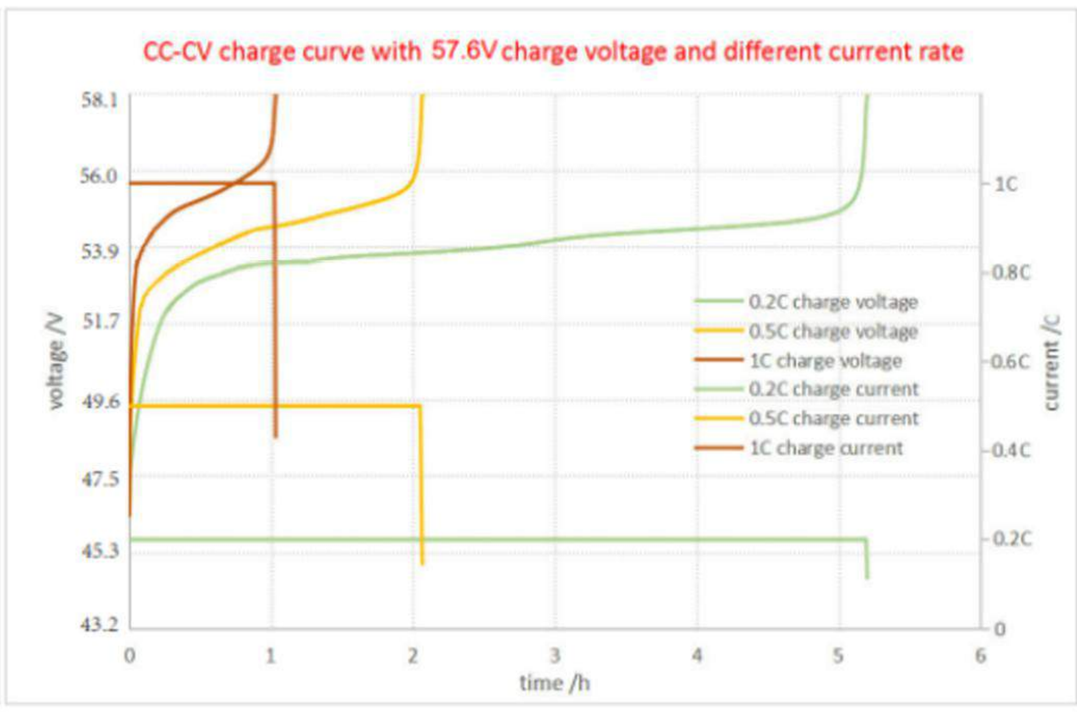
End voltage \ Current(A) / Time	0.1C	0.2C	0.33C	0.5C	0.8C	1.0C
	Hours					
49.6V	9.73	4.85	2.93	1.90	1.15	0.90
48.0V	9.92	4.96	3.00	1.96	1.20	0.93
46.4V	10.05	5.03	3.05	2.00	1.23	0.96
44.8V	10.13	5.07	3.08	2.02	1.25	0.98
43.2V	10.18	5.10	3.09	2.03	1.26	1.00

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

End voltage \ Time / Power	500 W	1000W	1620W	2480W	3900W	4500W
	Hours					
49.6V	9.83	4.89	2.92	1.85	1.05	0.82
48.0V	10.02	4.99	3.01	1.91	1.11	0.86
46.4V	10.13	5.05	3.05	1.95	1.15	0.9
44.8V	10.21	5.09	3.08	1.98	1.18	0.93
43.2V	10.25	5.12	3.09	2.00	1.2	0.95

Performance Curves





Disclaimers of warranties:

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All the data in datasheet is valid for single module operation. For parallel operation please ask Narada technical for guidelines.

Any datasheet issued previously is invalid when new version releases.

51.2NESR 100-EN (ver. 2.0 Mar 2024) Subject to revision without prior notice. E.&O.E