

stored energy solutions for a demanding world



Model:48100Rack

Zhuji 48100 (rack mounted) is a complete 48V LiFeP04 (lithium iron phosphate) battery product series, suitable for various applications such as telecommunications base stations UPS、 Renewable energy systems have advanced lifespan, standard size, lightweight, and strong environmental adaptability.

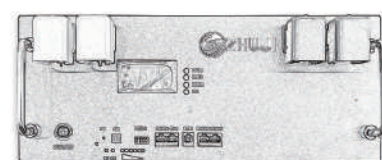


Battery Management System(BMS)

For standard Zhuji 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, Zhuji 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		100Ah (C _s , 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±0.5V
Dimensions	Width	450 mm (17.72inches)
	Depth	450 mm (17.72inches)
	Height	180 mm (7.09inchees)
Typical Weight		42KG
Layout of Front Pannel		
Status Indicators		SOC / ALM / RUN
Communication Ports		RS232 / RS485
Communication in Parallel		15 modules in Parallel
Reset Key		Available
Terminal Size		M8 (Screw size)
LCD Screen		Optional
Breaker		Standard
Maintenance Interface		Standard
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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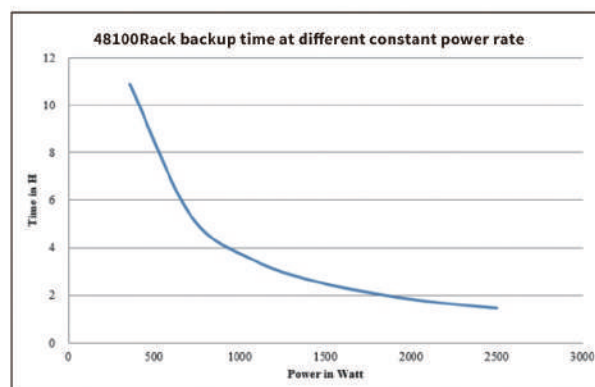
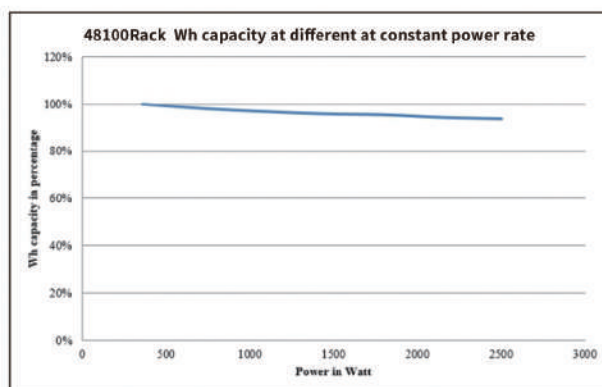
Constant Current Discharge Characteristics (25°C,77°F)

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		9.56	6.35	4.75	3.78	3.12	2.29	1.79	1.45	1.02
45.0		9.76	6.49	4.85	3.87	3.21	2.39	1.89	1.57	1.15
43.5		9.89	6.58	4.92	3.92	3.25	2.42	1.93	1.60	1.19
42.0		9.98	6.64	4.96	3.96	3.29	2.45	1.94	1.61	1.21
40.5		10.04	6.68	5.00	3.99	3.31	2.46	1.96	1.63	1.22
39.0		10.08	6.70	5.02	4.01	3.33	2.48	1.97	1.64	1.22

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

End voltage	Power	450W	900W	1350W	1800W	2250W	2700W	3150W
	Time	Hours						
46.5		10.35	5.11	3.36	2.46	1.92	1.53	1.27
45.0		10.55	5.22	3.45	2.55	2.02	1.66	1.40
43.5		10.66	5.28	3.49	2.58	2.06	1.69	1.43
42.0		10.75	5.32	3.52	2.61	2.07	1.70	1.45
40.5		10.79	5.35	3.54	2.62	2.09	1.72	1.46
39.0		10.82	5.37	3.55	2.63	2.09	1.73	1.47

Performance Curves



SHANDONG ZHUJI ENERGY TECHNOLOGY CO., LTD

Shandong Jinan Aosheng Building, High Tech Zone,2001

Tel:+86-185-9637-2821

E-mail: 14170158@qq.com

Website:HTTPS://ZHUJIENERGY.M.EN.ALIBABA.COM/

