

stored energy solutions for a demanding world



Model:48100 Stacked

The Zhuji brand stacked lithium battery (48V 100Ah) solves the capacity limitations, safety risks, and maintenance problems of traditional batteries through modular expansion, intelligent management, and wide temperature range adaptation. It is suitable for multiple scenarios such as home, industrial, and outdoor, and has both high efficiency and economy. Its technical parameters and design concepts are highly compatible with industry-leading products. If you need customized solutions or detailed parameters, you can further refer to the manufacturer's technical documentation or contact customer service.



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 ₅ , 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	600 mm (23.62 inches)
	Depth	400 mm (15.75 inches)
	Height	683 mm (26.89 inches)
Typical Weight		62 KG
Layout of Front Panel		
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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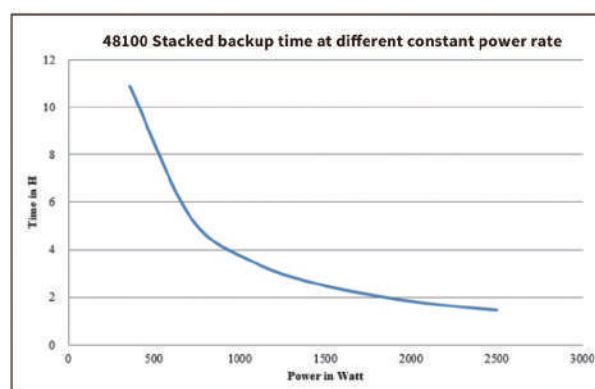
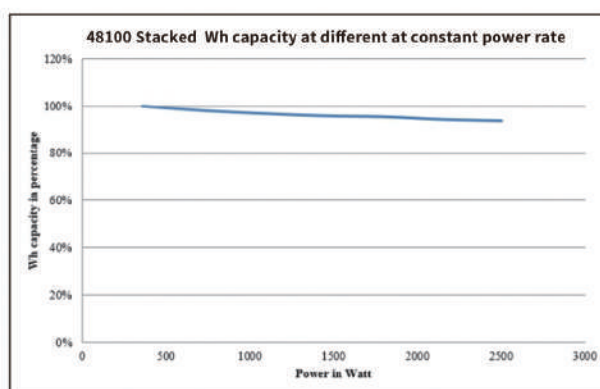
Constant Current Discharge Characteristics (25°C,77°F)

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



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