





ZXTS48100

48V 100Ah | 4.8kWh Battery System



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FEATURES

-  **Safety**
High-safety sodium-ion chemistry with multi-level protection from cell to pack.
-  **Simple**
Self-developed BMS and DC/DC technology with high charging efficiency, flexible configuration, easy installation, and support for up to 32 units in parallel.
-  **Smart**
Standard rack design, hybrid use of VRLA or Li-ion Battery, automatic charging and discharging, with SNMP and TCP/IP for remote monitoring.
-  **Secure**
Anti-theft function, with gyroscope and software lock to disable battery output when abnormal movement is detected

Technical Parameter	ZXTS48100
Battery DC	
Cell Type	Sodium-ion Prismatic Cell
Nominal Voltage	3.05V
Rated Capacity	160Ah
Cell Configuration	1P10S
Battery Pack	
Rated Voltage	48V
Rated Capacity	100Ah
Rated Energy	4800Wh
Dimensions (W x D x H)	480 x 550 x 200mm
Weight	46±1Kg
Design Life	15 Years
Ingress Protection	IP20
Installation	Standard 19" Rack
Cooling Method	Natural Cooling
Electrical Parameters	
Float Voltage	54V-57.6V
Discharge Cut-Off Voltage	48V-57V(supporting constant voltage output)
Recommended Charge Current	50A
Maximum Charge Current	100A
Recommended Discharge Current	50A
Maximum Discharge Current	100A
Overload Discharge Current	120A
Maximum DoD	80%DoD
Energy Efficiency	≥93%
Cycle Life	≥8000 cycles @ 70% DOD
End-of-Life Threshold	80% SOH
Battery Operation	
Operating Temperature	-10°C-60°C
Storage Temperature	0°C-60°C
Relative Humidity	0~95% RH, Non-Condensing
Working Altitude	≤3000m
Self-Discharge	≤4% / month @25°C
Shelf Life	6 months

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