

Residential Li-ion Battery

TU-48150ESS



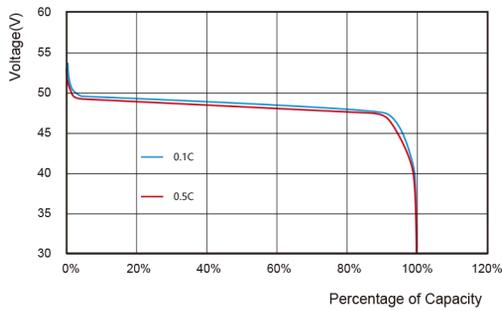
TU-48150ESS is a powerful 48V LiFePO4 battery system designed specially to provide backup power energy storage solutions. Its modular design allows parallel installation to meet the greater demand for power backup.

-  High energy density
-  Easy to install and upgrade
-  High operational reliability
-  Optimizing monitoring strategy via remote control/diagnostics
-  Ultra long cycle life
-  Built-in intelligent battery management system protects the battery pack and prolongs its service life

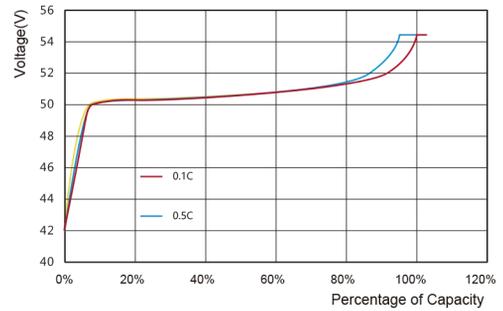
Discharge Data

Constant Current Discharge Data (25°C)							
Voltage/V	Current/A	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C
	Time/h						
45.0		9.560	4.902	3.283	2.442	1.943	1.601
43.5		10.017	4.993	3.339	2.475	1.978	1.634
42.0		10.094	5.041	3.374	2.517	2.008	1.654
40.5		10.201	5.090	3.390	2.533	2.021	1.674

Performance Curve



Discharging Curves at Different Rates (25°C)



Charging Curves at Different Rates (25°C)

Specification

Nominal Voltage	48V(15S3P Module)
Nominal Capacity	150Ah
Continuous Discharge Power	7200W
Cycle Life	≥6000 Cycles
Monthly Self-discharge	≤3.0%
Communication Interface	RS485/CAN
Charge Voltage	54V
Max. Charge Current	150A
Max. Continuous Current	150A
Discharge Cut-off Voltage	40.5V
Charge Temperature	0°C ~ 55°C
Discharge Temperature	-20°C ~ 60°C ≤95%
Storage Temperature	0°C ~ 40°C ≤85%
Dimensions	440*550*133mm
Weight	62Kg ± 2Kg



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