








Residential Li-ion Battery

TU-48100ESS



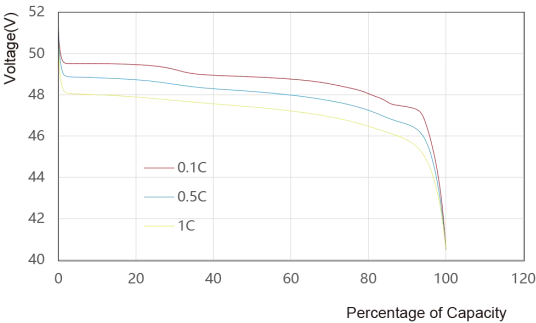
TU-48100ESS is a powerful 48V LiFePO₄ battery system designed specially to provide power backup for off-grid, on-grid and residential energy storage applications. Its modular design allows parallel installation to meet the greater demand for power backup.

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

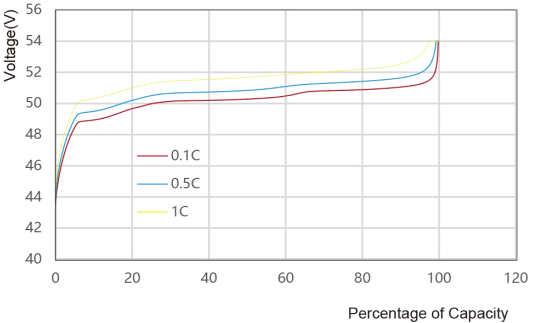
Discharge Data

Constant Current Discharge Data (25°C)										
Current/A Voltage/V Time/h	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1.0C
45.0	9.560	4.902	3.283	2.442	1.943	1.601	1.369	1.191	1.050	0.950
43.5	10.017	4.993	3.339	2.475	1.978	1.634	1.399	1.210	1.080	0.970
42.0	10.094	5.041	3.374	2.517	2.008	1.654	1.409	1.232	1.090	0.980
40.5	10.201	5.090	3.390	2.533	2.021	1.674	1.420	1.240	1.099	0.989

Performance Curve



Discharging Curves at Different Rates (25°C)



Charging Curves at Different Rates (25°C)

Specification

Nominal Voltage	51.2V(16S1P Module)
Nominal Capacity	100Ah
Continuous Discharge Power	5120W
Cycle Life	≥6000 Cycles
Monthly Self-discharge	≤3.0%
Communication Interface	RS485/CAN
Charge Voltage	57.6V
Max. Charge Current	100A
Max. Continuous Current	100A
Discharge Cut-off Voltage	43.2V
Charge Temperature	0℃ ~ 55℃
Discharge Temperature	-20℃ ~ 60℃ ≤95%
Storage Temperature	0℃ ~ 40℃ ≤85%
Dimensions	440*440*133mm
Weight	40Kg ± 2Kg



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