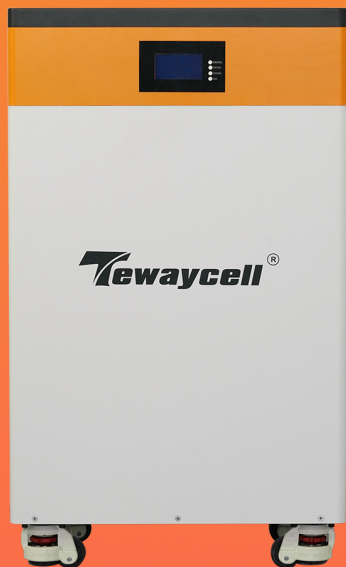




Roller Type ESS Battery



TW-MB48300-100A-HWB
TW-MB51300-100A-HWB
TW-MB51300-200A-HWB

Suit for Solar and wind energy systems.

FEATURES

Using lithium iron phosphate core technology, higher safety, 80% DOD charging and discharging under standard conditions, more than 6000 cycle.

High integrated analog front end, isolated power circuit. Integrated serial port IC, high voltage accuracy ($\leq 20\text{mV}$), high current accuracy ($\pm 2\% @ \text{FS}$)

4-way battery temperature detection ($\pm 2\text{C}$), SOC estimation function, SOH estimation function.

Short circuit protection function, adjustable overcurrent protection, multiple sleep and wake-up modes, low power consumption.

Dual RS485 communication, parameter adjustable setting, buzzer alarm function, LED status indication function, charging equalization function.

Temperature range of battery: $-20-60$.

Support parallel (up to 15 groups) application expansion.



Reliable Power Solution Provider

Lithium Iron Phosphate (LiFePO4) Battery

Model	TW-MB48300-100A-HWB	TW-MB51300-100A-HWB	TW-MB51300-200A-HWB
Nominal Capacity	300Ah@0.2C	300Ah@0.2C	300Ah@0.2C
Nominal Voltage	48.0v	51.2v	51.2v
Charging Voltage	53.2-54.0V	56.8-57.6V	56.8-57.6V
Operating Voltage	40.5V~54.75V	43.2V~58.4V	43.2V~58.4V
Charging Current	60A	60A	60A
Fast Charging Current	80A	80A	100A
Standard Charging Mode	At a temperature of 25°C, charge to 54.75v with a constant current of 0.2C, and then change continuously with a constant voltage of 54.75v until the current is not greater than 0.02C.		At a temperature of 25°C, charge to 58.4v with a constant current of 0.2C, and then change continuously with a constant voltage of 58.4v until the current is not greater than 0.02C.
Maximum Charging Current	100A		180A
Maximum Discharge Current	100A		200A
Charging Temperature	0. C to 45. C (32. F to 113. F) @60± 25% relative humidity		
Discharge Temperature	-20. C to 60. C (-4. F to 140. F) @60± 25% relative humidity		
Storage Temperature	-20. C to 60. C (-4. F to 140. F) @60± 25% relative humidity		
Line Joint	120A Self- Locking Fitting Quick Release connector		250A Self- Locking Fitting Quick Release connector
Net Weight Approx.	132KG	136KG	138KG
Communication Protocol	RS485 、 RS232 、 CAN		
Support Inverter Brand	Growatt 、 Deye 、 Goodwe 、 voltronic 、 Sofar 、 VICTRON 、 Megarevo 、 SRNE、 PYLON 、 Luxpowertek 、 Sorotec 、 SMA 、 GINLONG 、 MUST 、 TBB 、 STUDER		

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