

TRIEX.

powered by Trisun Energies

Energy Storage Solution
5.12kWh

TE-A05

Low Voltage Battery



KEY FEATURES



100Ah
Rated Capacity



6000
Lifecycle



LiFePO₄
Battery



Protection Class
IP65



90% Depth
of Discharge



Warranty
5 Years



Wall
Mounted Design



Superior Safety
and Stability

ADVANCED BMS

Engineered For Seamless Integration And
Reliable Performance



CERTIFICATES



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TECHNICAL PARAMETERS

Battery Module	TE-A05
Rated Energy(kWh) ¹	5.12
Usable Energy(kWh) ¹	4.6
Battery Module Energy	5.12kWh
Cell Type	LEP (LifePO ₄)
Cell Configuration	16S1P
Rated Capacity (Ah)	100
Nominal Voltage (V)	51.2
Operating Voltage Range (V)	40~57.6
Recommend Voltage Range (V)	44.8~56.8
Recommend Charge/ Discharge Current (A)	50
Recommend Charge/ Discharge Power (kW)	2.56
Max.Charging/ Discharging Current (A) ²	100
Max.Charging/ Discharging Power (kW) ²	5.12
Weight (kg)	48
Dimensions (WxHxD mm)	454*585*135
Communication	RS485,RS232,CAN
Operating Temperature (°C)	Charge: 0 ~ +50; Discharge: -20 ~ +50
Operating Temperature (Recommended) (°C)	15~30
Relative Humidity	5%~95%
Cycle Life	>6000 (25°C @ 77°F)
Recommend DOD	90%
Environment	Outdoor/Indoor (*Please refer to the user manual for installation condition)
Cooling	Natural Convection
Ingress Protection Rating	IP65
Max. Operating Altitude (m)	2000
Mounting Method	Wall mounted
Certificates	UN38.3
Product Warranty	5 Years Warranty

Note:

1. Value for Battery Cell Only (Depth of Discharge 90%) Actual usable energy at the AC output may vary by condition, such as the battery converter inverter efficiency and temperature.
2. TRIEX recommends 50A charge/discharge for maximum battery lifetime. Current and power may derate with temperature and SOC.