PV Storage System Specifications

O5.5K/5K-XCLA



- Combines energy storage and inverter functionality in a single unit, reducing installation time and costs, making it especially suitable for residential and small commercial applications.
- Supports both American and European standards, meeting safety and operational requirements in different regions for global applicability.
- Capable of handling up to 6000W of photovoltaic power, providing ample energy input for homes or businesses.
- Utilizes LFP (Lithium Iron Phosphate) batteries with a lifespan of up to ≥3,000 cycles, ensuring long-term energy supply and stable storage performance.
- Equipped with WiFi connectivity, enabling real-time monitoring of system status and energy usage, allowing users to manage and track their power systems conveniently.
- Delivers 94% to 99.5% efficiency for batteries and inverters, ensuring high energy conversion rates and minimizing energy waste.

Model	O5.5K/5K-XCLA
Battery	
Cell Materials	LiFePO4
Pack Method	1P16S
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Energy	5120Wh
Communication Method	CAN
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	41.6V
Maximum Charging Current	100A
Maximum Discharge Current	100A
Charging Mode	Two-Stage/Three-Stage Charging/PV Charging
Operating Efficiency	98%
Cycle Life	≥3,000 Times
Internal impedance	≤100mΩ
Ambient Temperature	-10°C~50°C
PV	
PV Charging Method PV	MPPT
PV Input Maximum Power PV	6000W
MPPT Operating Voltage MPPT	120~430Vdc
PV input Voltage Range PV	150V~500V

MPPT Operating Voltage MPPT Starting Voltage PV Maximum input Voltage PV MPPT Quantity MPPT Maximum Input Current Max Charging Current AC Input AC Main Topology Nominal Voltage 20 Input Voltage Range 90~280 Frequency Range **Power Factor** AC Output AC Main Topology **Output Voltage Waveform** Output Voltage 20 Voltage Regulation Nominal Output Power **Power Factor** Frequency Range Line Mode: Synchi Harmonic Distortion ≤3% (Linear APP: Line Transfer Time UPS: Line **Overlord Capacity** 1min@102%~110% Load; 10s@ Maximum Charging Current of AC Power **Bypass Current** Switching Time Efficiency Battery Mode(Peak Efficiency) MPPT Tracking Efficiency (Peak Efficiency) Line Mode >99.5%@5Kva (Full R load, without b **Battery Mode** >91.5% (Full R load;Eff Standby Power < 60W (N **General parameters** IP Protection Level **Ambient Temperature Operating Temperature Range** Ambient Humidity Display Mode Warranty 5 years for ba **Operating Altitude** Cooling Size(W*H*Dmm) Weight Noise

120Vdc~430Vdc
150Vdc
500Vdc
1
30A
100A
L+N+PE
08/220/Default 230/240VAC
0V(Default APP); 170~280V(UPS)
40~70Hz, Default
≥0.99
L+N+PE
Pure Sine Wave
08/220/Default 230/240VAC
≤±5%
5500W
1
ronized range,Battery Mode:50/60Hz±0.1%
Load); ≤5% (Non-linear Load PF=0.7)
Mode to Battery Mode 10ms(Typical)
e Mode to Battery Mode 10ms(Typical)
@110%~130% Load; 3s@130%~150% Load; 0.2s@>150% Loa
80A
40A
<10ms
0.00
94%
99.5%
attery connect;Efficiency VS load curve with different input Voltage.
ficiency VS load curve with different input Voltage.
lo-load mode, battery disconnected)
IP21
-20℃-50℃
-20°C~+60°C
5-95%(No condensation)
LCD
attery cells and 2 years for inverter boards
<2000m
Intelligent air cooling
610*937*161.2mm
75kg
<60dB