

6KW / 15KWH ALL-IN-ONE ENERGY STORAGE SYSTEM

ES2521

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INTEGRATED INVERTER AND BATTERY
Combines inverter and battery into one unit, simplifying installation and commissioning.
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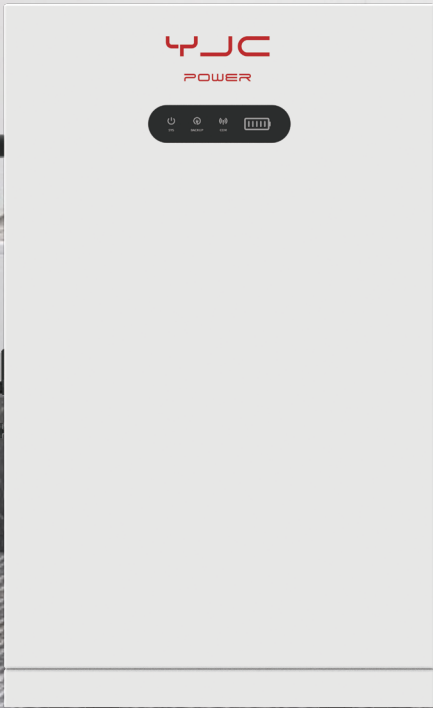
SPACE AND COST EFFICIENT
Compact design saves space and reduces overall system costs.
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IDEAL FOR ECONOMICAL HOME STORAGE
Provides a cost-effective energy solution tailored for modern households.
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RELIABLE LONG-LASTING POWER
15 kWh LiFePO₄ battery with over 8,000 cycles for years of dependable use.
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EXPANDABLE CAPACITY
Supports parallel connection to grow with your energy needs.
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SMART MONITORING AND SAFE OPERATION
Equipped with intelligent BMS and IP54 protection, ensuring safe and stable performance.



Model	ES2521
Battery Specifications	
Battery Type	LiFePO ₄
Cell Capacity	314 Ah
Nominal Voltage	48 Vdc
Voltage Range	37.5 ~ 54.7 Vdc
Nominal Energy	15.07 kWh
Rated Charge/Discharge Current	120 A
Maximum Continuous Charge/Discharge Current	120 A
Pack Configuration	1P15S
Number of Packs	1 Pack
Cycle Life	≥ 8000 cycles
AC Parameters	(Grid-Tied Mode)
Rated Power	6000 W
Rated Grid Voltage	220 / 230 Vac
Rated Grid Frequency	50 / 60 Hz
Rated Grid Current	27.3 A / 26.1 A
Maximum Grid Current	30 A / 28.7 A
Maximum AC Power from Grid	10000 VA
Connection Type	L / N / PE
Power Factor	0.8 leading ~ 0.8 lagging
THDi	< 3% (at rated power)
AC Parameters	(Backup / Off-Grid Mode)
Rated Power	6000 W
Rated Grid Voltage	220 / 230 Vac
Rated Output Current	26.1 A
Maximum Apparent Power Output	6600 VA
Peak Apparent Power	7200 VA (60 s) / 9000 VA (10 s)
Connection Type	L / N / PE
Switch-over Time	≤ 10 ms
PV Input	(DC Side)
Recommended Maximum PV Input Power	9 kW
Maximum PV Input Voltage	600 Vdc
Operating Voltage Range	100 ~ 550 Vdc
Start-up Voltage	120 Vdc
Maximum PV Input Current	16 A × 2
Maximum Short-Circuit Current	20 A × 2
Number of MPPTs	2
MPPT Efficiency	≥ 99.5%
System Parameters	
Dimensions (W × D × H)	680 × 230 × 1050 mm (without wheels) / 1130 mm (with wheels)
Weight	185 kg ± 10 kg
Cooling Method	Intelligent forced air cooling / natural convection
Maximum Efficiency	≥ 90%
Installation Method	Wall-mounted
Operating Temperature Range	-20 ~ 50 °C (derating above 45 °C)
Operating Humidity	0 ~ 95% RH (non-condensing)
Storage Temperature Range	-15 ~ 60 °C
Noise Level	≤ 70 dB (TBD)
IP Rating	IP65
Corrosion Resistance	C3
Maximum Operating Altitude	3000 m (derating above 2000 m)
Display	Display LED + Lens
Communication Interfaces	WiFi / Ethernet / RS485
Activation	AC / PV Activation