



American ESS split phase inverter

SPI-8KL
SPI-10KL
SPI-12KL



Advanced MPPT technology with up to 99.9% efficiency
Up to 22+22A PV input current



Outputs high quality pure sine wave AC power
Up to 10kW output power



Comprehensive security from hardware to software
Multiple safety approvals



Support Li-ion battery BMS communication
Up to 200A charging current



Support parallel function Max.9 units



Exclusive Li-ion battery BMS dual activation
Time-slot function to save cost with peak-valley

MODELS	SPI-08KL	SPI-10KL	SPI-12KL
INVERTER OUTPUT			
Rated Output Power	8,000W	10,000W	12,000W
Max. Peak Power	16,000W	20,000W	24,000W
Rated Output Voltage	120, single-phase / 240V, split-phase		
Capacity of Motors	4HR	5HP	6HP
Rated AC Frequency	50/60Hz		
Waveform	Pure sine wave		
Switch Time	10ms (typical)		
Parallel Capacity	1-6 units (single/split/three phase)		
BATTERY			
Battery Type	Li-ion / Lead-acid / User-defined		
Rated Battery Voltage	48Vdc		
Battery Voltage Range	40~60Vdc		
Max. MPPT Charging Current	100A	180A	200A
Max. Mains / Generator Charging Current	60A	100A	120A
Max. Hybrid Charging Current	100A	180A	200A
PV INPUT			
Num. of MPPT Trackers	2		
Max. PV Array Power	5,500W+5,500W		
Max. Input Current	22A+22A		
Max. Open Circuit Voltage	500Vdc+500Vdc		
MPPT Voltage Range	125~425Vdc		
UTILITY / GENERATOR INPUT			
Input Voltage Range	90~140Vac		
Frequency Range	50/60Hz		
Bypass Overload Current	63A		
EFFICIENCY			
MPPT Tracking Efficiency	99.9%		
Max. Battery Inverter Efficiency	92%		
GENERAL			
Dimensions	620*445*130mm		
Weight	27kg		
Protection Degree	IP20, indoor only		
Operating Temperature Range	-10~55 C, >45 C derated		
Noise	<60dB		
Cooling Method	Internal Fan		
Warranty	18 Months		
COMMUNICATION			
Embedded Interfaces	RS485 / CAN / USB / Dry contact		
Modules	Wi-Fi built in		