



Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

Safety

- 360 degrees of security from hardware to software
- Multiple safety approvals available

All in one

- Support for many types of batteries
- Supports Li-ion battery BMS communication

Reliable

- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power

User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating



House



Farm



Telecom



Countryside



Island



Pasture

MODEL	SPE3000-124SP	CAN BE SET
INVERTER OUTPUT		
Rated Output Power	3,000W	
Max. Peak Power	6,000VA	
Rated Output Voltage	120Vac (single-phase)	✓
Load Capacity of Motors	2HP	
Rated AC Frequency	50Hz/60Hz	✓
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
BATTERY		
Battery Type	Lead-acid / Li-ion /User defined	✓
Rated Battery Voltage	24V	
Voltage Range	20~33Vdc	✓
Max. MPPT Charging Current	80A	✓
Max. Mains/Generator Charging Current	40A	✓
Max. Hybrid Charging Current	80A	✓
PV INPUT		
Num. of MPPT Trackers	1	
Max.PV Array Power	4,000W	
Max.Input Current	13A	
Max.Voltage of Open Circuit	500Vdc	
MPPT Voltage Range	120-450Vdc	
UTILITY/ GENERATOR INPUT		
Input Voltage Range	90~140Vac	✓
Frequency Range	50/60Hz	
Bypass Overload Current	40A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	92%	
GENERAL		
Dimensions	378*280*103mm (1.24*0.91*0.33ft)	
Weight	8kg (17.6lb)	
Protection Degree	IP20, indoor only	
Operating Temperature Range	-10°C~55°C	
Noise	≤60dB	
Cooling Method	Forced air cooling with adjustable air speed	
Warranty	18 Months	
COMMUNICATION		
Embedded Interfaces	RS485 / USB / Dry contact	✓
External Modules (Optional)	Wi-Fi / GPRS	✓
CERTIFICATION		
Safety	CE(IEC 62109-1)/CETL(UL1741 C22.2 NO.107.1)/PSR	
EMC	EN61000	
RoHS	Yes	



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Pasture

MODEL	SPE5000-148SP	CAN BE SET
INVERTER OUTPUT		
Rated Output Power	5,000W	
Max. Peak Power	11,000VA	
Rated Output Voltage	120Vac	✓
Load Capacity of Motors	4HP	
Rated AC Frequency	50Hz/60Hz	✓
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
BATTERY		
Battery Type	Lead-acid / Li-ion /User defined	✓
Rated Battery Voltage	48V	
Voltage Range	40~60Vdc	✓
Max. MPPT Charging Current	80A	✓
Max. Mains/Generator Charging Current	40A	✓
Max. Hybrid Charging Current	80A	✓
PV INPUT		
Num. of MPPT Trackers	1	
Max.PV Array Power	6,000W	
Max.Input Current	22A	
Max.Voltage of Open Circuit	500Vdc	
MPPT Voltage Range	120-450Vdc	
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	426*322*126mm (1.40*1.06*0.41ft)	
Weight	11.6kg (25.57lb)	
Protection Degree	IP20, indoor only	
Operating Temperature Range	-10°C~55°C	
Noise	≤60dB	
Cooling Method	Forced air cooling with adjustable air speed	
Warranty	18 Months	
COMMUNICATION		
Embedded Interfaces	RS485 / USB / Dry contact	✓
External Modules (Optional)	Wi-Fi / GPRS	✓
CERTIFICATION		
Safety	CE(IEC 62109-1)/CETL(UL1741 C22.2 NO.107.1)/FCC/SAA	
EMC	EN61000	
RoHS	Yes	



Efficiency

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 18+18A PV input current

Reliable

- Outputs high quality pure sine wave AC power
- Up to 6 units in parallel connection

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Up to 140A charging current
- Support Li-ion battery BMS communication

Intelligent

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



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Pasture

MODEL	SPE4000-148SL	SPE5000-148SL	SPE6000-148SL	SPE6500-148SL
INVERTER OUTPUT				
Rated Output Power	4000W	5000W	6000W	6500W
Max. Peak Power	8000VA	10000VA	12000VA	13,000 VA
Rated Output Voltage	120/240Vac(single-phase/split-phase)			
Rated AC Frequency	50/60Hz			
Waveform	Pure sine wave			
Switch Time	10ms (typical value)			
Parallel Capacity	1~6 units			
BATTERY				
Battery Type	Lithium-ion battery/lead-acid battery/user-defined battery			
Rated Battery Voltage	48Vdc			
Battery Voltage Range	40~60Vdc			
Max. Mains / Generator Charging Current	60A	60A	80A	80A
Max. Hybrid Charging Current	100A	120A	140A	140A
PV INPUT				
Num. of MPPT Trackers	2			
Max. PV Array Power	3000W+3000W	3800W+3800W	4500W+4500W	5000W+5000W
Max. Input Current	18+18A			
Max. Open Circuit Voltage	550Vdc+550Vdc			
MPPT Voltage Range	150~450Vdc			
UTILITY / GENERATOR INPUT				
Input Voltage Range	65~140Vac			
Frequency Range	50/60Hz			
Bypass Overload Current	40A			
EFFICIENCY				
MPPT Tracking Efficiency	99.90%			
Max. Battery Inverter Efficiency	93%			
GENERAL				
Dimension	584.6*410*133 mm			
Weight	18.9 kg			
Protection	IP20, for indoor use only			
Operating Temperature Range	-10°C—55°C, >45°C derating			
Noise	<60 dB			
Cooling Method	Intelligent fan			
Warranty	24 Months			
COMMUNICATION				
Embedded Interfaces	RS485/CAN/USB/dry contact			
External Modules (Optional)	Wi-Fi/GPRS			
CERTIFICATION				
Safety	IEC62109-1, IEC62109-2, and UL1741			
EMC	EN61000-6-1, EN61000-6-3, and FCC 15 class B			
RoHS	Yes			



Efficiency

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

Reliable

- Outputs high quality pure sine wave AC power
- Up to 6 units in parallel connection

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

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

Intelligent

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



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Pasture

MODEL	SPE10000-148SL	SPE8000-148SL	Can Be Set
INVERTER OUTPUT			
Rated Output Power	10,000W	8,000W	
Max. Peak Power	20,000W	16,000W	
Rated Output Voltage	120Vac, single-phase / 240Vac, split-phase/ three-phase, be paralleled		✓
Load Capacity of Motors	6HP	5HP	
Rated AC Frequency	50/60Hz		✓
Waveform	Pure sine wave		
Switch Time	10ms (typical)		
Parallel Capacity	1~6 units		
Output Mode	Off-grid (default) / Hybrid		✓
BATTERY			
Battery Type	Li-ion /Lead-acid /User-defined		✓
Rated Battery Voltage	48Vdc		
Battery Voltage Range	40~60Vdc		✓
Max. MPPT Charging Current	200A	180A	✓
Max. Mains / Generator Charging Current	120A	100A	✓
Max. Hybrid Charging Current	200A	180A	✓
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	24 Months		
COMMUNICATION			
Embedded Interfaces	RS485 / CAN / USB / Dry contact		✓
External Modules (Optional)	Wi-Fi / GPRS		✓
CERTIFICATION			
Safety	IEC62109-1, IEC62109-2, UL1741		
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B		
RoHS	Yes		



Efficiency

- Advanced MPPT technology with up to 99% efficiency
- Up to 36+36A PV input current

Reliable

- Outputs high quality pure sine wave AC power
- Up to 6 units in parallel connection

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Up to 300A charging current
- Support Li-ion battery BMS communication

Intelligent

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



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Pasture

Model	SPE14000-148SL	SPE15000-148SL	SPE16000-148SL
INVERTE.5 R OUTPUT			
Rated Output Power	14000W	15000W	16000W
Max. Peak Power	2 times rated power, 10s		
Max. Apparent Power	14000VA	15000VA	16000VA
Rated Output Voltage	120Vac/240Vac (L1+L2+N+PE)		
Rated Output Current	58.3Aac	62.5Aac	66.7Aac
Load Motor Capacity	9HP		
Rated AC Frequency	50/60Hz		
Waveform	Pure sine wave		
Switch Time	10ms (typical)		
BATTERY			
Battery Type	Lead-Acid Battery / Lithium-Ion Battery /User Defined		
Rated Battery Voltage	48Vdc		
Battery Volatge Range	40Vdc~60Vdc		
Max. Grid/Generator Charging Current	300Adc	300Adc	300Adc
Max. Charging/Discharging Current	300Adc	300Adc	300Adc
SOLAR INPUT			
No. Of MPPT	2		
Max. PV Input Power	12000W + 12000W		
Max. PV Input Current	36Adc + 36Adc		
PV Short-circuit Current	50Adc + 50Adc		
PV Start-up Voltage	90Vdc / 90Vdc		
Max. PV Open-Circuit Voltage	600Vdc / 600Vdc		
MPPT Operating Voltage Range	120Vdc~550Vdc / 120Vdc~550Vdc		
GRID/GENERATOR INPUT			
Rated Input Voltage	120Vac/240Vac (L1+L2+N+PE)		
Input Voltage Range	85Vac~140Vac / 170Vac~280Vac		
Rated Input Frequency	50Hz/60Hz		
Bypass Overload Current (Grid)	100Aac		
Bypass Overload Current (Generator)	58.3Aac	62.5Aac	66.7A
EFFICIENCY			
MPPT Tracking Efficiency	>99%		
Max. Inverter Efficiency	94.3%		
Max. Charging Efficiency	93.4%		
GENERAL DATA			
Parallel Capacity	1~6 Units		
Dimension	20.24×33.39×8.46in	Altitude	2000m (78740in)
Weight	47.5kg (≈105lbs)	Cooling Method	Intelligent Air Cooling
Protection Degree	IP20 Indoor Only	Warranty	2 years
Temperature	14~131°F, >113°F Derated	Communication	RS485/CAN/USB/Dry Contact
Noise	<60dB	External Module (Optional)	Wi-Fi/4G Stick
Certificate	IEC62109-1, IEC62109-2,UL1741,EN61000-6-1, EN61000-6-3, FCC 15 class B		
PROTECTION			
Has PV Current Limiting Protection, PV Overvoltage Protection, Night Anti - backcharging Protection, Mains Input Overvoltage Protection, Mains Input Undervoltage Protection, Battery Overvoltage Protection, Battery Undervoltage Protection, Battery Overcurrent Protection, AC Output Short - circuit Protection, Heat Sink Overtemperature Protection, Overload Protection, AC Backfeed Protection, Bypass Overcurrent Protection, Bypass Wiring Error Protection, Arc Fault Protection, Leakage Current Protection, Rapid Shutdown Signal Generator (Optional)			



Efficiency

- Advanced MPPT technology with up to 99% efficiency
- Up to 36+36A PV input current

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- Up to 6 units in parallel connection

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Up to 360A charging current
- Support Li-ion battery BMS communication

Intelligent

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



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Pasture

MODEL	SPE15000-148TP	SPE16000-148TP	SPE18000-148TP
AC OUTPUT			
Rated AC Output Power	15000W	16000W	18000W
Max. AC Output Power	16500VA	17600VA	19800VA
Peak Power(off grid)	2 times rated power, 10s		
Rated AC Output Current	41.7Aac	44.5Aac	50Aac
Rated Output Frequency		50/60Hz	
Rated Output Voltage	120/208Vac (L1+L2+L3+N+PE)		
Output Voltage Range		120/208Vac ± 5%	
BATTERY			
Battery Type	Lead-Acid Battery / Lithium-Ion Battery / User Defined		
Rated Battery Voltage	48Vdc		
Battery Voltage Range	40~60Vdc		
Max. PV Charging Current	320Adc	360Adc	360Adc
Max. Grid/Generator Charging Current	320Adc	360Adc	360Adc
Max. Charging/Discharging Current	320Adc	360Adc	360Adc
Charging Curve	3 Stages / Equalization		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV INPUT			
No. of MPPT Trackers	2		
Max. PV Input Power	14.4kW + 14.4kW		
Input Current	36Adc + 36Adc		
Min. PV Input Voltage / Start-up Voltage	100Vdc / 100Vdc		
Max. PV Open-Circuit Voltage	600Vdc / 600Vdc		
MPPT Operating Voltage Range	120~550Vdc / 120~550Vdc		
GRID/GENERATOR INPUT			
Rated Input Frequency	50/60Hz		
Rated Input Voltage	120/208Vac (L1+L2+L3+N+PE)		
AC Voltage Range	Phase Voltage 90~140Vac; Line Voltage 156~242Vac		
Bypass Overload Current	100Aac		
EFFICIENCY			
MPPT Tracking Efficiency	>99%		
Max.Efficiency	97.6%		
BASIC DATA			
Parallel Capacity	1~6 units		
Dimensions	23.36"×33.40"×8.47"	Cooling Method	Intelligent Air Cooling
Weight	53.6KG (118lbs)	Communication Interface	RS485/CAN/WI-FI
Operating Temperature	14 ~ 131 °F, >113 °F Derated	External Modules (Optional)	Wi-Fi/4G Stick
Protection Degree	IP20		
Certification	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, RoHS, FCC 15 class B		
Protection Functions			
With PV input current/ power limiting protection, PV input over-voltage, Anti-reverse charge protection at night, AC input over-voltage protection, AC input under-voltage protection, Battery over-voltage protection, Battery under-voltage protection, Battery over-current protection, AC output short-circuit protection, Heat sink over- temperature protection, nverter over-load protection, AC output reverse, Bypass over-current protection, Bypass phase inconsistency protection.			