

SUNPAL



S&Y Series

High-performance Hybrid Inverters



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Why Choose Sunpal?

The Sunpal S and Y Series are high-performance off grid hybrid inverters with excellent reliability, including power class from 3 kW to 12 kW.

The intelligent function supports self-consumption mode, economic mode, and backup mode for multi-scenario applications. Module-level monitoring management allows users to remotely diagnose and track individual modules' performance over time, maximizing the total solar power production.

10 ⁺ Years Industry Experience	50,000 ^{m²} Plants	500 ⁺ Employees	100 ⁺ Exporting Countries
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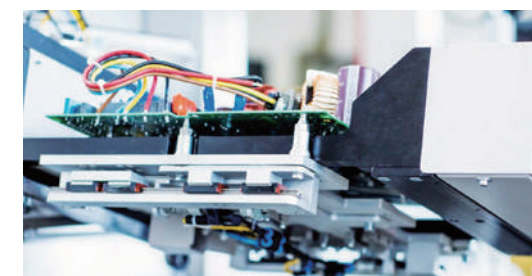


EFFICIENT PRODUCTION, OPERATION, QUALITY CONTROL

Intelligent Manufacturing



Comprehensive Professional Test



Lean production





Sunpal Off Grid Hybrid Inverters

S Series



HSI



SYP



SEI



SPI

3KW-5.5KW HSI

S-Series

Product Features

-  Up to 6 units in parallel
-  Up to 22A PV input current
-  Time-slot charging & discharging
-  Up to 99.9% MPPT tracking efficiency
-  Comprehensive protection
-  Support Li-ion battery BMS dual activation



Product Parameters

Model	HSI 5500P
Inverter Output	
Rated Output Power	5,000W
Max. Peak Power	11,000VA
Rated Output Voltage	230Vac, single-phase / three-phase(3 units in parallel)
Load Capacity Of Motors	4HP
Rated Ac Frequency	50Hz/60Hz
Waveform	Pure sine wave
Switch Time	10ms (typical)
Num. Of Parallel	1-6 units
Battery	
Battery Type	Li-ion /Lead-acid / User-define
Rated Battery Voltage	48V
Voltage Range	40~60Vdc
Max. Mppt Charging Current	100A
Max. Mains/generator Charging Current	60A
Max. Hybrid Charging Current	100A
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	UPS mode:170~280Vac;APL mode: 90~280Vac
Frequency Range	50/60Hz
Bypass Overload Current	40A
General	
Dimensions	426*322*124mm
Weight	10.5kg
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)	W-Fi / GPRS



Product Parameters

Model	HSI 5500		HSI 5000U	
Inverter Output				
Rated Output Power	5,500W		5,000W	
Max. Peak Power	11,000VA		11,000VA	
Rated Output Voltage	230Vac, single-phese		120Vec, single-phase	
Load Capacity Of Motors	4HP			
Rated Ac Frequency	50Hz/60Hz			
Waveform	Pure sine wave			
Switch Time	10ms (typical)			
Battery				
Battery Type	Li-ion / Lead-acid / User-define			
Rated Battery Voltage	48V			
Voltage Range	40~60Vdc			
Max. Mppt Charging Current	100A		80A	
Max. Mains/generator Charging Current	60A		40A	
Max. Hybrid Charging Current	100A		80A	
PV Input				
Num. Of MPPT Trackers	1			
Max. PV Array Power	6,000W		6,000W	
Max. Input Current	22A		22A	
Max. Voltage Of Open Circuit	500vdc			
Mppt Voltage Range	120~450Vdc			
Utility /generator Input				
Input Voltage Range	UPS mode:170~280Vac APLmode: 90~280Vac		90~140Vac	
Frequency Range	50Hz/60Hz			
Bypass Overload Current	40A		63A	
General				
Dimensions	426*322*126mm			
Weight	10.5kg		11.6kg	
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)	W-Fi / GPRS			

Product Parameters

Model	HSI 3500
Inverter Output	
Rated Output Power	3,500W
Max. Peak Power	6,000VA
Rated Output Voltage	230Vac, single-phase
Load Capacity Of Motors	2HP
Rated Ac Frequency	50Hz/60Hz
Waveform	Pure Sine Wave
Switch Time	10ms (typical)
Battery	
Battery Type	Li-ion / Lead-acid / User-define
Rated Battery Voltage	24V
Voltage Range	20-33Vdc
Max. Mppt Charging Current	80A
Max. Mains/generator Charging Current	80A
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	UPS mode:170~280Vac;APL mode: 90~280Vac
Frequency Range	50Hz/60Hz
Bypass Overload Current	30A
General	
Dimensions	378*280*103mm
Weight	7.4kg
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 / CAN / USB / Dry contact
External Modules (Optional)	W-Fi / GPRS

Product Parameters

Model	HSI 3000S		HSI 3000U
Inverter Output			
Rated Output Power	3,000W		
Max. Peak Power	6,000VA		
Rated Output Voltage	230Vac, single-phase	120Vac, single-phase	
Load Capacity Of Motors	2HP		
Rated Ac Frequency	50Hz/60Hz		
Waveform	Pure sine wave		
Switch Time	10ms (typical)		
Battery			
Battery Type	Li-ion / Lead-acid / User-define		
Rated Battery Voltage	24V		
Voltage Range	20~33Vdc		
Max. Mppt Charging Current	60A	60A	
Max. Mains/generator Charging Current	80A	40A	
Max. Hybrid Charging Current	140A	100A	
PV Input			
Num. Of MPPT Trackers	1		
Max. PV Array Power	1,600W		
Max. Input Current	40A		
Max. Voltage Of Open Circuit	108vdc		
Mppt Voltage Range	30~90vdc		
Utility /generator Input			
Input Voltage Range	UPS mode:170~280Vac APLmode: 90~280Vac	90~140Vac	
Frequency Range	50Hz/60Hz		
Bypass Overload Current	30A	40A	
General			
Dimensions	378*280*103mm		
Weight	6.8kg		
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)	W-Fi / GPRS		

Product Parameters

Model	HSI 3000R
Inverter Output	
Rated Output Power	3,300W
Max. Peak Power	6,000VA
Rated Output Voltage	230Vac, single-phase
Load Capacity Of Motors	2HP
Rated Ac Frequency	50Hz/60Hz
Waveform	Pure Sine Wave
Switch Time	10ms (typical)
Battery	
Battery Type	Li-ion / Lead-acid / User-define
Rated Battery Voltage	48V
Voltage Range	40~60Vdc
Max. Mppt Charging Current	60A
Max. Mains/generator Charging Current	60A
Max. Hybrid Charging Current	120A
PV Input	
Num. Of MPPT Trackers	1
Max. PV Array Power	3,400W
Max. Input Current	40A
Max. Voltage Of Open Circuit	145vdc
Mppt Voltage Range	60-115Vdc
Utility /generator Input	
Input Voltage Range	UPS mode:170~280Vac;APL mode: 90~280Vac
Frequency Range	50Hz/60Hz
Bypass Overload Current	30A
General	
Dimensions	378*280*103mm
Weight	6.2kg
Protection Degree	IP20, indoor only
Operating Temperature Range	-15°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)	W-Fi / GPRS

5KW SYP

S-Series

Product Features

-  Up to 6 units in parallel
-  Up to 22A PV input current
-  Time-slot charging & discharging
-  Up to 99.9% MPPT tracking efficiency
-  Comprehensive protection
-  Support Li-ion battery BMS dual activation



Product Parameters

Model	SYP 5K-S		SYP 5K-U
Inverter Output			
Rated Output Power	5,000W		
Max. Peak Power	10,000VA		
Rated Output Voltage	230Vac, single-phase / three-phase(3 units in parallel)	120Vac, single-phase / split-phase(2 units in parallel) / three-phase(3 units in parallel)	
Load Capacity of Motors	4HP		
Rated AC Frequency	50Hz/60Hz		
Waveform	Pure sine wave		
Switch Time	10ms (typical)		
Num. of Parallel	1-6 units		
Battery			
Battery Type	Li-ion /Lead-acid / User-define		
Rated Battery Voltage	48Vdc		
Voltage Range	40~60Vdc		
Max. MPPT Charging Current	100A		
Max. Mains/Generator Charging Current	60A	40A	
Max. Hybrid Charging Current	100A		
PV Input			
Num. of MPPT Trackers	1		
Max. PV array power	5,500W		
Max. Input current	22A		
Max. Voltage of Open Circuit	500vdc		
MPPT Voltage Range	120-450Vdc		
Utility /generator Input			
Input Voltage Range	90~280Vac	90~140Vac	
Frequency Range	50Hz/60Hz		
Bypass Overload Current	40A	63A	
General			
Dimensions	446.9*350*133mm		
Weight	13kg	14kg	
Protection Degree	IP20, indoor only		
Operating Temperature Range	-10°C-55°C		
Noise	<60dB		
Cooling Method	Intelligent fan		
Warranty	18 months		
Communication			
Embedded Interfaces	RS485 / USB / Dry contact		
External Modules (optional)	W-Fi / GPRS		

8KW-10KW SPI

S-Series

Product Features

-  Up to 6 units in parallel
-  Up to 260A charging current
-  The 400V three-phase system is efficient
-  Dual MPPT with up to 99.9% efficiency
-  Comprehensive protection
-  Support Li-ion battery BMS dual activation



Product Parameters

Model	SPI-8K-H3P	SPI-10K-H3P	SPI-12K-H3P
Inverter Output			
Rated Output Power	8,000W	10,000W	12,000W
Max. Peak Power	16,000W	20,000W	24,000W
Rated Output Voltage	400Vac, three-phase		
Load Capacity Of Motors	5HP	6HP	6HP
Rated Ac Frequency	50Hz/60Hz		
Waveform	Pure Sine Wave		
Switch Time	10ms (typical)		
Battery			
Battery Type	Li-ion / Lead-acid / User-defined		
Rated Battery Voltage	48Vdc		
Voltage Range	40~60Vdc		
Max. Mppt Charging Current	180A	220A	260A
Max. Mains/generator Charging Current	100A	120A	120A
Max. Hybrid Charging Current	180A	220A	260A
PV Input			
Num. Of MPPT Trackers	2		
Max. PV Array Power	6,000W/6,000W	7,500W+7,500W	9,000W+9,000W
Max. Input Current	22A+22A		
Max. Voltage Of Open Circuit	800Vdc+800vdc		
Mppt Voltage Range	200~650Vdc+200~650Vdc		
Utility /generator Input			
Input Voltage Range	phase voltage 170-280V, line voltage 305-485V		
Frequency Range	50Hz/60Hz		
Bypass Overload Current	63A		
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		
External Modules (Optional)	W-Fi / GPRS		

Product Parameters

Model	SPI-8K-SP	SPI-10K-SP
Inverter Output		
Rated Output Power	8,000W	10,000W
Max. Peak Power	16,000W	20,000W
Rated Output Voltage	230Vac,single-phase / three-phase(3 units in parallel)	
Load Capacity Of Motors	5HP	6HP
Rated Ac Frequency	50Hz/60Hz	
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
Num. of Parallel	1-6 units	
Battery		
Battery Type	Li-ion / Lead-acid / User-defined	
Rated Battery Voltage	48Vdc	
Voltage Range	40~60Vdc	
Max. Mppt Charging Current	180A	200A
Max. Mains/generator Charging Current	100A	120A
Max. Hybrid Charging Current	180A	200A
PV Input		
Num. Of MPPT Trackers	2	
Max. PV Array Power	5,500W+5,500W	
Max. Input Current	22A+22A	
Max. Voltage Of Open Circuit	500Vdc+500Vdc	
Mppt Voltage Range	125~425Vdc+125~425Vdc	
Utility /generator Input		
Input Voltage Range	90~275Vac	
Frequency Range	50Hz/60Hz	
Bypass Overload Current	63A	
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	
External Modules (Optional)	W-Fi / GPRS	

Product Parameters

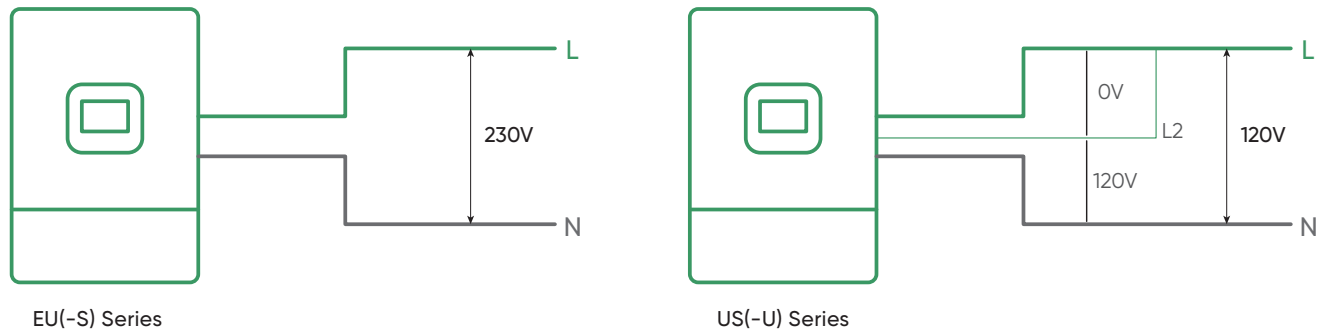
Model	SPI-4K-UP	SPI-5K-UP	SPI-6K-UP	SPI-6.5K-UP
Inverter Output				
Rated Output Power	4000W	5000W	6000W	6500W
Max. Peak Power	8000W	10000VA	12000VA	13000VA
Rated Output Voltage	120/240Vac(single-phase/split-phase)			
Rated AC Frequency	50/60Hz			
Waveform	Pure sine wave			
Switch Time	10ms (typical 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. Voltage Of Open Circuit	550Vdc+550Vdc			
Mppt Voltage Range	150~450Vdc			
Utility /generator Input				
Input Voltage Range	65~140Vac			
Frequency Range	50Hz/60Hz			
Bypass Overload Current	40A			
EFFICIENCY				
MPPT Tracking Efficiency	99.90%			
Max. Battery Inverter Efficiency	93%			
General				
Dimensions	584.6*410*133 mm			
Weight	18.9kg			
Protection Degree	IP20, for indoor use only			
Operating Temperature Range	-10~55°C,>45°C derating			
Noise	<60dB			
Cooling Method	Intelligent fan			
Warranty	18 months			
Communication				
Embedded Interfaces	RS485 / CAN / USB / Dry Contact			
External Modules (Optional)	W-Fi / GPRS			
Certification				
Safety	IEC62109-1, IEC62109-2, and UL1741			
EMC	EN61000-6-1, EN61000-6-3, and FCC 15 class B			
RoHS	Yes			

Product Parameters

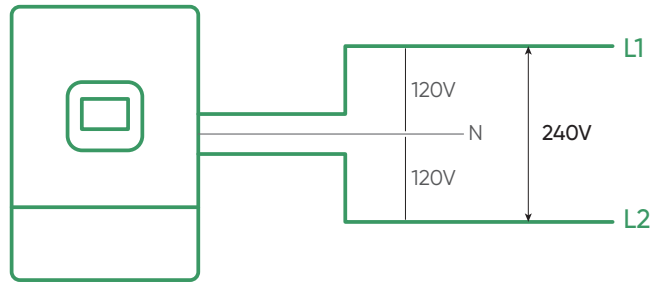
Model	SPI-8K-UP	SPI-10K-UP
Inverter Output		
Rated Output Power	8,000W	10,000W
Max. Peak Power	16,000W	20,000W
Rated Output Voltage	120Vac,single-phase /240Vac, split-phase	
Load Capacity Of Motors	5HP	6HP
Rated Ac Frequency	50Hz/60Hz	
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
Battery		
Battery Type	Li-ion / Lead-acid / User-defined	
Rated Battery Voltage	48Vdc	
Voltage Range	40~60Vdc	
Max. Mppt Charging Current	180A	200A
Max. Mains/generator Charging Current	100A	120A
Max. Hybrid Charging Current	180A	200A
PV Input		
Num. Of MPPT Trackers	2	
Max. PV Array Power	5,500W+5,500W	
Max. Input Current	22A+22A	
Max. Voltage Of Open Circuit	500Vdc+500Vdc	
Mppt Voltage Range	125~425Vdc+125~425Vdc	
Utility /generator Input		
Input Voltage Range	90~140Vac	
Frequency Range	50Hz/60Hz	
Bypass Overload Current	63A	
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	
External Modules (Optional)	W-Fi / GPRS	

Output mode

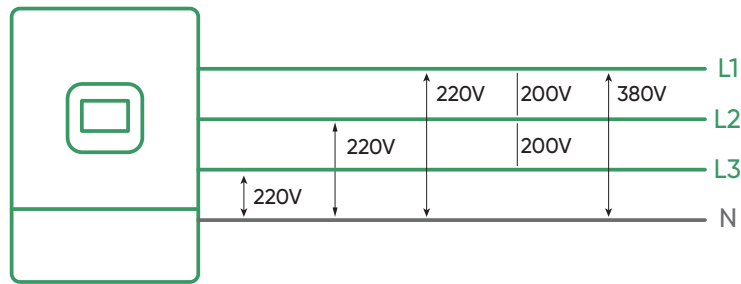
Single-phase mode



Split-phase mode



Three-phase mode



4KW-12KW SEI

S-Series

Product Features

-  Up to 6 units in parallel
-  Up to 22A PV input current
-  Time-slot charging & discharging
-  Up to 99.9% MPPT tracking efficiency
-  Comprehensive protection
-  Support Li-ion battery BMS dual activation



Product Parameters

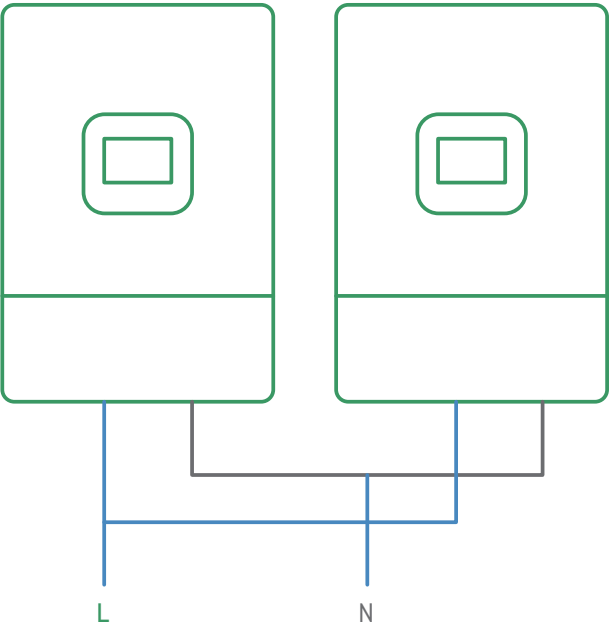
Model	SEI-8K-SP	SEI-10K-SP	SEI-12K-SP
Inverter Output			
Rated Output Power	8,800W	10,000W	12,000W
Max. Peak Power	17,600VA	20,000VA	24,000VA
Rated Output Voltage	230Vac, single-phase / three-phase(3 units in parallel)		
Load Capacity Of Motors	5HP	6HP	6HP
Output Frequency Range	50Hz/60Hz		
Switch Time	10ms (typical)		
Num. of Parallel	1~6 units		
Battery			
Battery Type	Li-ion / Lead-acid / User-defined		
Rated Battery Voltage	48V		
Battery Voltage Range	40~60Vdc		
Max. Mppt Charging Current	200A		
Max. generator Charging Current	60A		
Max. Mains Charging Current	120A		
Max. Hybrid Charging Current	200A		
PV Input			
Num. Of MPPT Trackers	2		
Max. PV Array Power	5,500W+5,500W	5,500W+5,500W	6,600W+6,600W
Max. Input Current	22A+22A		
Max. Voltage Of Open Circuit	500Vdc+500vdc		
Utility /generator Input			
Input Voltage Range	90~280Vac		
Frequency Range	50/60Hz (auto detection)		
Bypass Overload Current	63A		
General			
Dimensions	670*440*240mm		
Weight	37kg		
Protection Degree	IP65		
Operating Temperature Range	-25~60°C,>45°C derated		
Noise	<60dB		
Cooling Method	Internal Fan		
Warranty	5 years		
Communication			
Embedded Interfaces	RS485 / CAN / USB / Dry Contact		
External Modules (Optional)	W-Fi / GPRS		

Product Parameters

Model	SEI-8K-UP	SEI-10K-UP	SEI-12K-UP
Inverter Output			
Rated Output Power	8,800W	10,000W	12,000W
Max. Peak Power	17,600VA	20,000VA	24,000VA
Rated Output Voltage	120/240Vac, single-phase / split-phase / three-phase(parallel)		
Load Capacity Of Motors	5HP	6HP	6HP
Output Frequency Range	50Hz/60Hz		
Battery			
Battery Type	Li-ion / Lead-acid / User-defined		
Rated Battery Voltage	48V		
Max. PV Charging Current	200A		
Max. Mains Charging Current	120A		
Max. Alternator Charging Current	60A		
Max. Hybrid Charging Current	200A		
PV Input			
Num. Of MPPT Trackers	2		
Max. PV Array Power	5,500W+5,500W	5,500W+5,500W	6,600W+6,600W
Max. Input Current	22A+22A		
Max. Open-circuit Voltage	500Vdc+500vdc		
MPPT Operating Voltage Range	125~425Vdc		
Mains /generator Input			
Input Voltage Range	90~140Vac		
Frequency Range	50/60Hz		
General			
Num. of Parallel	1~6 units		
Dimensions	750*440*240mm (2.46*1.44*0.79ft)		
Weight	42kg (92.59lb)		
Protection Degree	IP65		
Operating Temperature Range	-25-60°C,>45°C derated		
Noise	<60dB		
Cooling Method	Intelligent air-cooling		
Warranty	5 years		
Communication			
Embedded Interfaces	RS485 / CAN / USB / Dry Contact		
External Modules (Optional)	W-Fi / GPRS		
Certification			
Safety	IEC62109-1, IEC62109-2		
Rohs	Yes		

Parallel Connection

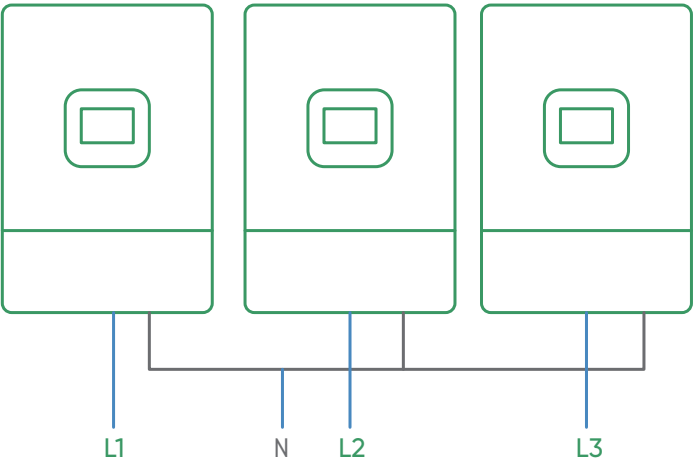
Single phase output



Supports parallel connection of 1 to 6 inverters, each with the same phase output, for a single-phase output with power stacking

Eg.5kW per inverter, 3 inverters in parallel can output 15kW

Three phase output



Supports 3 to 6 inverters in parallel, with L1, L2 and L3 each consisting of at least one inverter to form a three-phase output

Sunpal Off Grid Hybrid Inverters

Y Series

Sunpal Y series inverters are available in American and European versions, support both off-grid and grid-tied functionality, accommodating various applications. With up to 98% conversion efficiency, it ensures minimal energy loss while being compatible with various battery systems for flexible energy storage. Additionally, it supports smart connectivity for easy remote monitoring and control.



5KW-12KW EU Standard

Y-Series

Product Features

- 

Supports up to 6 units in parallel
- 

Beautiful appearance, simple installation, practical and convenient
- 

The MPPT tracking efficiency can reach 99.9%
- 

It has comprehensive security protection from software to hardware



Product Parameters

Model	YO-5K-EU
Inverter Output	
Rated Output Power	5000W
Max. Peak Power	10000W
Rated Output Voltage	230Vac, single-phase / three-phase when paralleled
Motor Load Capacity	4.8HP
Rated Power	50Hz/60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms (typical value). The maximum value is 20ms for single unit and 30ms for parallel operation.
The Number Of Units That Can Be Paralleled	6
Battery	
Battery Type	Li-ion / Lead-acid
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	120A
Max Mains/generator Charging Current	100A
Max. Mixed Charging Current	120A
PV Input	
The Number Of MPPT Channels	1
Maximum Input Power	7500W
Maximum Input Current	27A
Maximum Open-circuit Voltage	500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	170~280V±7V(UPS); 90~280V±7V(APL)
Input Frequency Range	50/60Hz
Bypass Overload Current	40A
Efficiency	
MPPT Tracking Efficiency	99.90%
Max Efficiency Of Battery Inverter	93%
Universal	
Dimensions	470*365*130/470*400*130mm
Weight	15/17.2kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55°C
Noise	≤45dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	RS485/CAN/GPRS/WIFI/Bluetooth/4G/LAN(Optional)
Certification	
Overview	IEC62109-1/IEC62109-2 ,EN61326-1:2013

Product Parameters

Model	YO-6K-EU
Inverter Output	
Rated Output Power	6000W
Max. Peak Power	12000W
Rated Output Voltage	230Vac, single-phase / three-phase when paralleled
Motor Load Capacity	4.8HP
Rated Power	50Hz/60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms (typical value). The maximum value is 20ms for single unit and 30ms for parallel operation.
The Number Of Units That Can Be Paralleled	6
Battery	
Battery Type	Li-ion / Lead-acid
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	120A
Max Mains/generator Charging Current	100A
Max. Mixed Charging Current	120A
PV Input	
The Number Of MPPT Channels	1
Maximum Input Power	9000W
Maximum Input Current	27A
Maximum Open-circuit Voltage	500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	170~280V±7V(UPS); 90~280V±7V(APL)
Input Frequency Range	50/60Hz
Bypass Overload Current	40A
Efficiency	
MPPT Tracking Efficiency	99.90%
Max Efficiency Of Battery Inverter	93%
Universal	
Dimensions	470*365*130/470*400*130mm
Weight	15/17.2kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55°C
Noise	≤45dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	RS485/CAN/GPRS/WIFI/Bluetooth/4G/LAN(Optional)
Certification	
Overview	IEC62109-1/IEC62109-2 ,EN61326-1:2013

Product Parameters

Model	YO-8K-EU
Inverter Output	
Rated Output Power	8000W
Max. Peak Power	16000W
Rated Output Voltage	230Vac, single-phase / three-phase when paralleled
Motor Load Capacity	5HP
Rated Power	50Hz/60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms (typical value). The maximum value is 20ms for single unit and 30ms for parallel operation.
The Number Of Units That Can Be Paralleled	6
Battery	
Battery Type	Li-ion / Lead-acid
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	180A
Max Mains/generator Charging Current	100A
Max. Mixed Charging Current	180A
PV Input	
The Number Of MPPT Channels	2
Maximum Input Power	7,500W+7,500W
Maximum Input Current	22A+22A
Maximum Open-circuit Voltage	500V+500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	170~280V±7V(UPS); 90~280V±7V(APL)
Input Frequency Range	50/60Hz
Bypass Overload Current	63A
Efficiency	
MPPT Tracking Efficiency	99.90%
Max Efficiency Of Battery Inverter	93%
Universal	
Dimensions	450*620*142mm
Weight	27kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55°C
Noise	<60dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	RS485/CAN/GPRS/WIFI/ Bluetooth/4G/LAN(Optional)
Certification	
Overview	IEC62109-1/IEC62109-2 ,EN61326-1:2013

Product Parameters

Model	YO-10K-EU
Inverter Output	
Rated Output Power	10000W
Max. Peak Power	20000W
Rated Output Voltage	230Vac, single-phase / three-phase when paralleled
Motor Load Capacity	6HP
Rated Power	50Hz/60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms (typical value). The maximum value is 20ms for single unit and 30ms for parallel operation.
The Number Of Units That Can Be Paralleled	6
Battery	
Battery Type	Li-ion / Lead-acid
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	200A
Max Mains/generator Charging Current	120A
Max. Mixed Charging Current	200A
PV Input	
The Number Of MPPT Channels	2
Maximum Input Power	7,500W+7,500W
Maximum Input Current	22A+22A
Maximum Open-circuit Voltage	500V+500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	170~280V±7V(UPS); 90~280V±7V(APL)
Input Frequency Range	50/60Hz
Bypass Overload Current	63A
Efficiency	
MPPT Tracking Efficiency	99.90%
Max Efficiency Of Battery Inverter	93%
Universal	
Dimensions	450*620*142mm
Weight	27kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55°C
Noise	<60dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	RS485/CAN/GPRS/WIFI/Bluetooth/4G/LAN(Optional)
Certification	
Overview	IEC62109-1/IEC62109-2 ,EN61326-1:2013

Product Parameters

Model	YO-12K-EU
Inverter Output	
Rated Output Power	12000W
Max. Peak Power	24000W
Rated Output Voltage	230Vac, single-phase / three-phase when paralleled
Motor Load Capacity	6HP
Rated Power	50Hz/60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms (typical value). The maximum value is 20ms for single unit and 30ms for parallel operation.
The Number Of Units That Can Be Paralleled	6
Battery	
Battery Type	Li-ion / Lead-acid
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	220A
Max Mains/generator Charging Current	140A
Max. Mixed Charging Current	220A
PV Input	
The Number Of MPPT Channels	2
Maximum Input Power	9,000W+9,000W
Maximum Input Current	22A+22A
Maximum Open-circuit Voltage	500V+500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	170~280V±7V(UPS); 90~280V±7V(APL)
Input Frequency Range	50/60Hz
Bypass Overload Current	63A
Efficiency	
MPPT Tracking Efficiency	99.90%
Max Efficiency Of Battery Inverter	93%
Universal	
Dimensions	450*620*142mm
Weight	27kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55°C
Noise	<60dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	RS485/CAN/GPRS/WIFI/ Bluetooth/4G/LAN(Optional)
Certification	
Overview	IEC62109-1/IEC62109-2 ,EN61326-1:2013

5KW-12KW US Standard

Y-Series

Product Features

- 

Supports up to 6 units in parallel
- 

Beautiful appearance, simple installation, practical and convenient
- 

The MPPT tracking efficiency can reach 99.9%
- 

It has comprehensive security protection from software to hardware



Product Parameters

Model	YO-5K-US
Inverter Output	
Rated Output Power	5000W
Max. Peak Power	10000W
Rated Output Voltage	120V, Single-phase
Motor Load Capacity	4.8HP
Rated Power	60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms (typical value). The maximum value is 20ms for single unit and 30ms for parallel operation.
The Number Of Units That Can Be Paralleled	6
Battery	
Battery Type	Li-ion / Lead-acid
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	120A
Max Mains/generator Charging Current	100A
Max. Mixed Charging Current	120A
PV Input	
The Number Of MPPT Channels	1
Maximum Input Power	7500W
Maximum Input Current	27A
Maximum Open-circuit Voltage	500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	90V~140V
Input Frequency Range	60/55~65Hz
Bypass Overload Current	40A
Efficiency	
MPPT Tracking Efficiency	99.90%
Max Efficiency Of Battery Inverter	93%
Universal	
Dimensions	470*365*130 / 470*400*130mm
Weight	15/17.2kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55°C
Noise	≤45dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	RS485/CAN/GPRS/WIFI/Bluetooth/4G/LAN(Optional)

Product Parameters

Model	YO-6K-US
Inverter Output	
Rated Output Power	6000W
Max. Peak Power	12000W
Rated Output Voltage	120V, Single-phase
Motor Load Capacity	4.8HP
Rated Power	60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms (typical value). The maximum value is 20ms for single unit and 30ms for parallel operation.
The Number Of Units That Can Be Paralleled	6
Battery	
Battery Type	Li-ion / Lead-acid
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	120A
Max Mains/generator Charging Current	100A
Max. Mixed Charging Current	120A
PV Input	
The Number Of MPPT Channels	1
Maximum Input Power	9000W
Maximum Input Current	27A
Maximum Open-circuit Voltage	500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	90V~140V
Input Frequency Range	60/55-65Hz
Bypass Overload Current	50A
Efficiency	
MPPT Tracking Efficiency	99.90%
Max Efficiency Of Battery Inverter	93%
Universal	
Dimensions	470*365*130 / 470*400*130mm
Weight	15/17.2kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55°C
Noise	≤45dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	RS485/CAN/GPRS/WIFI/Bluetooth/4G/LAN(Optional)

Product Parameters

Model	YO-8K-US
Inverter Output	
Rated Output Power	8000W
Max. Peak Power	16000W
Rated Output Voltage	120V, Single-phase/240V, split-phase
Motor Load Capacity	5HP
Rated Power	50/60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms (typical value). The maximum value is 20ms for single unit and 30ms for parallel operation.
The Number Of Units That Can Be Paralleled	6
Battery	
Battery Type	Li-ion / Lead-acid / User-defined
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	180A
Max Mains/generator Charging Current	100A
Max. Mixed Charging Current	180A
PV Input	
The Number Of MPPT Channels	2
Maximum Input Power	7,500W+7,500W
Maximum Input Current	22A+22A
Maximum Open-circuit Voltage	500V+500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	90~275V
Input Frequency Range	50/60Hz
Bypass Overload Current	63A
Efficiency	
MPPT Tracking Efficiency	99.9%
Max Efficiency Of Battery Inverter	92%
Universal	
Dimensions	450*620*142mm
Weight	27kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55°C, >45°C Derating
Noise	<60dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	Wi-Fi/Bluetooth/RS 485/CAN/USB/Dry contact
External module (optional)	4G

Product Parameters

Model	YO-10K-US
Inverter Output	
Rated Output Power	10000W
Max. Peak Power	20000W
Rated Output Voltage	120V, Single-phase/240V, split-phase
Motor Load Capacity	6HP
Rated Power	50/60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms
The Number Of Units That Can Be Paralleled	1-6 (Unit)
Overload protection	Adopting an inverse time overload protection algorithm
Battery	
Battery Type	Li-ion / Lead-acid / User-defined
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	200A
Max Mains/generator Charging Current	120A
Max. Mixed Charging Current	200A
PV Input	
The Number Of MPPT Channels	2
Maximum Input Power	7,500W+7,500W
Maximum Input Current	22A+22A
Maximum Open-circuit Voltage	500V+500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	90~275V
Input Frequency Range	50/60Hz
Bypass Overload Current	63A
Efficiency	
MPPT Tracking Efficiency	99.9%
Max Efficiency Of Battery Inverter	92%
Universal	
Dimensions	450*620*142mm
Weight	27kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55°C, >45°C Derating
Noise	<60dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	Wi-Fi/Bluetooth/RS 485/CAN/USB/Dry contact
External module (optional)	4G

Product Parameters

Model	YO-12K-US
Inverter Output	
Rated Output Power	12000W
Max. Peak Power	24000W
Rated Output Voltage	120V, Single-phase/240V, split-phase
Motor Load Capacity	6HP
Rated Power	50/60Hz
Output Voltage Waveform	Pure Sine Wave
Transfer Time	10ms
The Number Of Units That Can Be Paralleled	1-6 (Unit)
Overload protection	Adopting an inverse time overload protection algorithm
Battery	
Battery Type	Li-ion / Lead-acid / User-defined
Rated Battery Voltage	48V
Battery Voltage Range	40~60V
Max PV Charging Current	220A
Max Mains/generator Charging Current	140A
Max. Mixed Charging Current	220A
PV Input	
The Number Of MPPT Channels	2
Maximum Input Power	9,000W+9,000W
Maximum Input Current	22A+22A
Maximum Open-circuit Voltage	500V+500V
MPPT Operating Voltage Range	125~425V
Utility /generator Input	
Input Voltage Range	90~275V
Input Frequency Range	50/60Hz
Bypass Overload Current	63A
Efficiency	
MPPT Tracking Efficiency	99.9%
Max Efficiency Of Battery Inverter	92%
Universal	
Dimensions	450*620*142mm
Weight	27kg
Protecting Level	IP20/IP54
Operating Temperature Range	-10~55C,>45°C (Derating)
Noise	≤60dB
Heat Dissipation	Intelligent air cooling
Warranty Period	3 Years
Communication	
Communication Method	Wi-Fi/Bluetooth/RS 485/CAN/USB/Dry contact
External module (optional)	4G

Solar System Connection

Monitoring Cloud Platform

Wherever you are, our cloud platform enables you to effortlessly achieve remote monitoring and management of energy. With intelligent load management and improved circuit efficiency, your energy utilization will be more efficient. By assessing the health status of battery systems, we ensure that your energy storage system is in optimal condition.

Easily achieve remote debugging and setup of systems, making your management and optimization easier and more flexible.



Product line



Product



Installation



Exhibition Promotion

Munich Exhibition

2025/5



Manila Exhibition

2025/3



Dubai Exhibition

2025/4



Uzbekistan Exhibition

2024/10

