



18KW 48V All-in-One Solar Charge Inverter

High Compatibility & Peak Performance | Smart Energy Management

The SunGoldPower 18kW Solar Inverter, Supports both lead-acid and lithium-ion batteries with dual activation via grid or PV. Delivers stable three-phase pure sine wave output (156–242V) with adjustable phase voltage. Dual MPPTs offer up to 99.9% efficiency with 36A per circuit for maximum solar yield.

Supports solar-only & hybrid charging with time-of-use optimization to cut energy costs. Built-in UPS, generator-ready design, and full protections keep your power always on. With LCD monitoring and multiple communication ports, it's the perfect solution for reliable home, commercial, and industrial energy storage.



Supports Battery-free mode



Dual Activation Function



Supports 6 parallel units



Supports 5 Different Voltage



Dual MPPT



WIFI Module Monitoring



2 Charging Modes



360° Protection



Large LCD Display



Breaker Module



View Full Product Catalog



WWW.SUNGOLDPOWER.COM



833-761-6080

Work With SunGoldPower

Apply for Dealer Program
Request Bulk Pricing

Technical Specifications

Product Model	PowerCore 18K-48
Inverter Output	
Rated Output Power	18000W
Max. Peak Power	2 times rated power, 10s
Max. AC Output Power	19800VA
Rated AC Output Current	50.0Aac
Rated Output Frequency	50/60Hz
Rated Output Voltage	120/208Vac (L1+L2+L3+N+PE)
Output Voltage Range	120/208Vac + 5%
Battery Input	
Battery Type	Li-ion Battery / Lead-Acid Battery / User Defined
Rated Battery Voltage	48Vdc
Battery Voltage Range	40-60Vdc
Max. PV Charging Current	360Adc
Max. Grid/Generator Charging Current	360Adc
Max. Charging/Discharging Current	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 array power	14.4kW + 14.4kW
Max. Input Current	36Adc+36Adc
Min. PV Input Voltage/Start-up Voltage	100Vdc
Max. PV Input Voltage	600vdc
MPPT Operating Voltage Range	120-550Vdc
Grid / Generator Input	
Frequency Range	50/60Hz
Input Voltage Range	120/208Vac (L1+L2+L3+N+PE)
AC Voltage Range	Phase Voltage 90~140Vac; Line Voltage156~242Vac
Continuous Grid Passthrough Current	100A
Interface	
Communication port	RS485 / CAN / USB / Dry contact
External Modules(Optional)	Wi-Fi / GPRS
General Data	
Parallel Capacity	1~6 units
Dimensions	23.36 x33.40 x8.47 inches
Weight	118 lbs
Protection Degree	IP20, indoor use only
Operating Temperature Range	14 ~ 131 °F, >113 °F Derated
Noise	<60dB
Cooling Method	Intelligent Air Cooling
Communication	
Internal Interface	RS485/CAN/WiFi
External Module (optional)	WiFi/ 4G Stick
Certified Specifications	
Safety standards	IEC62109-1,IEC62109-2
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B
RoHS	Yes

Sun Gold Power Copyright. Information may be subject to change without notice during product improving