SUNGOLDPOWER

SGS-16K25MAX / SGS-18K28MAX



16kW/18kW 48V Solar Hybrid Inverter

Whole Home Backup(200A) UL 1741 Certification

This series of hybrid inverters efficiently convert solar energy into alternating current, store excess energy in batteries, or feed it back into the power grid. There are two different current outputs available: **16kw/18kw,** which provides unparalleled flexibility for off-grid, grid-tied, or hybrid solar systems.

Equipped with **AC-coupled** functionality and a robust **200A whole-home backup capability**, it ensures uninterrupted power supply during outages. Its **IP65-rated** enclosure makes it ideal for both indoor and outdoor installations, providing durable, weather-resistant performance in any environment.

- 200A — Whole Home Backup
- MPPT — Built-in 3-way MPPT
- Support Split-phase/ Three-phase
- Supports lead acid battery and li-ion battery
- Supports 7 different voltage levels
- 9 — Up to 9 Inverters parallel
- Support CAN, USB and RS485 communication
- 2 Charging modes and 2 output modes
- LCD large screen dynamic flow diagram design
- Wi-Fi/4G Stick (Optional)

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Technical Specifications

Product Model	SGS-16K25MAX	SGS-18K28MAX
Inverter Output		
Rated Output Power	16000 W	18000 W
Max. Peak Power	32000 VA	36000 VA
Rated Output Voltage	120/240Vac(Split-phase) 120/208V(Three-phase)	
Output Voltage Error	±5%	
Rated AC Frequency	50/60 Hz ±0.3 Hz	
AC Output (On-grid)		
Max. Apparent Power	17600 VA	19800 VA
Locked Rotor Current (LRA)	188 A	
Rated Output Voltage	120/240 Vac (L1+L2+N+PE)	
Rated AC Output Current	66.7Aac	75 Aac
Battery		
Battery Type	Li-ion Battery / Lead-Acid Battery / User Defined	
Rated Battery Voltage	48Vdc	
Voltage Range	40-60Vdc	
Max. Grid/Generator Charging Current	340 Adc	380 Adc
Max. Hybrid Charging Current	340 Adc	380 Adc
PV Input		
No. of MPPT Trackers	3	
No. of Strings MPPT Tracker	2+2+2	
Max. PV Access Power	32000W	36000W
Max. PV Input Power	25600W	28800W
Max. PV Input Current	42A/42A/42A	
Max. PV Input Voltage	600V	
MPPT Operating Voltage Range	120V~500V	
Grid / Generator Input		
Input Voltage Range	Phase Voltage: 90V~140 V; Line Voltage: 180V~280V	
Input Frequency Range	40-70Hz	
Max. Bypass Overload Current	200A	
Protection		
PV Input Lightning Protection,Anti-islanding Protection,PV Input Reverse Polarity Protection,Insulation Resistor Detection,Residual Current Monitoring Unit,Output Overcurrent Protection,Output Shorted Protection,Arc fault circuit interrupter,protection (AFCI),Surge Protection:DC type II/AC type II,Overvoltage Category		
Interface		
Communication Interface	RS485 / CAN / USB / Dry contact	
External Modules(Optional)	Wi-Fi/4G Stick (Optional)	
General Data		
Parallel Capacity	9	
Operating Temperature	-40 ~ 140 °F, >113 °F derated	
Noise	<55dB	
Protection Degree	IP65	
Dimensions	33.86*18.90*12.32 inches	
Weight	142.64 lbs	
Cooling Method	Heat sink + intelligent fan cooling	
Certification		
Certificate	DC Arc-Fault Circuit Protection UL 1699B:2018,CSA C22.2#107.1, CALIFORNIA Rule 21,IEEE 1547:2018, IEEE 1547.1:2020, UL 1741 SB,Hawaiian HECO SRD-IEEE-1547.1:2020 Ed.2.0,Interconnection of Distributed Energy Resources and,Electricity Supply Systems [CSA C22.3#9:2020 Ed.2],FCC 15 Class B, UL 1741:2021 Ed.3+R	

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