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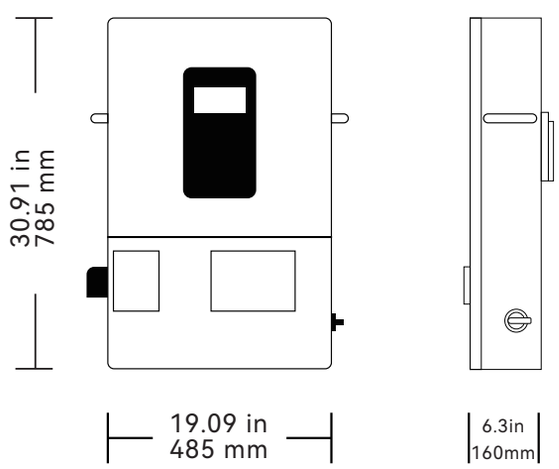
SUNON12

Single/Split-Phase | UL1741
All-In-One Off-Grid Inverter
24kW PV input | 12kW output



Advanced solar energy storage solution compatible with 48V batteries, featuring a charging capacity of up to 250A. The innovative SUB working mode allows for hybrid charging from both the grid and solar sources, while the time-sharing charge and discharge function optimizes energy usage. Supporting parallel connections of up to 6 units for a total capacity of 72kW, this inverter is ideal for both residential and commercial applications. Efficiently harness and manage solar energy for maximum savings and performance with the SUNON12.

DEALER PORTAL



Powerful Hybrid Charging
Supports charging up to 250A, combining solar and grid hybrid charging

Intelligent Time-Sharing
Allows for timed charging and discharging, maximizing energy efficiency

Parallel Capability
Connect up to 6 units in parallel for a total output of 72kW.

120V/240V Output
Provides 120V and 240V to meet you need.

Dual MPPT Technology
Dual MPPT design ensures optimal solar energy utilization, 99% MPPT efficiency

Smart Load Output
60A capacity
Adaptive control via voltage / SOC, and PV input

Generator Compatibility
Dedicated generator input
Selectable 120V or 240V operation

Bypass Output
Up to 125A capacity
Seamless switching via EMS

Rapid Shutdown
Quickly de-energizes solar PV systems to protect first responders

WiFi & App Integration
Connects via WiFi to an app for easy access and monitoring of information.

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MODEL	SUNON12
INVERTER OUTPUT	
Rated Output Power	12,000W
Max. Output Power	18,000VA
Rated Output Voltage	120/240 Vac (single-phase/split-phase)
Load capacity of Motors	6 HP
Rated Frequency	50/60Hz
Output Wave	Pure sine wave
Bypass Overload Current	Load 125A+smart Load 60A
Switching Time(bypass and inverter)	10ms(typical value)
Smart load Overload Current	60A
BATTERY	
Battery Type	Lithium-ion battery/lead-acid battery/user-defined battery
Rated Battery Voltage	48V
Volatge Range	40~60Vdc
Max. Solar Charging Current	250A
Max. Grid/Generator Charging Current	160A
Max. Hybrid Charge Current	250A
SOLAR INPUT	
No. Of MPPT	2
Max. Input Power	12,000W+12,000W
Max. Input Current	32/32A
Max. Open Circuit Voltage	500Vdc
MPPT Voltage Range	90~450Vdc
GENERATOR INPUT	
Rated input voltage	120(L1/N, L2/N)/240Vac(L1/L2)
Input phase Voltage Range	(85Vac~140Vac)±2%
Input Frequency Range	50/60Hz
Overload Current	60A
GRID INPUT	
Rated input voltage	120(L1/N, L2/N)/240Vac(L1/L2)
Input phase Voltage Range	(85Vac~140Vac)±2%
Input Frequency Range	50/60Hz
EFFICIENCY	
MPPT Tracking Efficiency	99.9%
Max. Efficiency	93%
GENERAL DATA	
Parallel Capacity	1~6 Units
Dimension(L*W*D)	30.91x19.09x6.33 in(785x485x160.8 mm)
Weight	84.88lb(38.5kg)
Noise	<60dB
Cooling Method	Intelligent fan
Protection Degree	IP20 Indoor Only
Temperature	-10-55°C, >45°C Derate
Warranty	5 years
Communication	RS485/CAN/USB/Dry Contact
External Module (Optional)	Wi-Fi
Integrated Circuit Breaker	INV Input/GEN/Load/Smart load/Battery
Certificate	FCC Part15 ClassB / UL1741