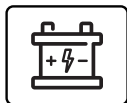
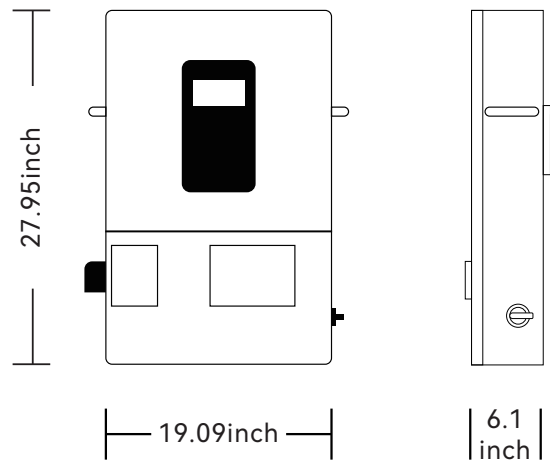


# SUNON12

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.



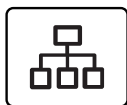
### Powerful Hybrid Charging

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



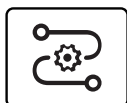
### Intelligent Time-Sharing

Allows for timed charging and discharging, maximizing energy efficiency



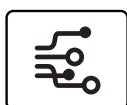
### Stackable Design

Stack up to 6 units for a total output of 72kW



### 120V/240V Output

Provides 120V and 240V to meet you need.



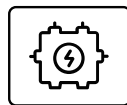
### Dual MPPT Technology

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



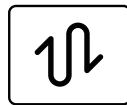
### Smart Load Output

63A 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.

MODEL	SUNON12
<b>INVERTER OUTPUT</b>	
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	125A
Switching Time(bypass and inverter)	10ms(typical value)
Smart load Overload Current	63A
<b>BATTERY</b>	
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. Mix Charge Current	250A
<b>SOLAR INPUT</b>	
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
<b>GENERATOR INPUT</b>	
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	63A
<b>GRID INPUT</b>	
Rated input voltage	120(L1/N, L2/N)/240Vac(L1/L2)
Input phase Voltage Range	(85Vac~140Vac)±2%
Input Frequency Range	50/60Hz
<b>EFFICIENCY</b>	
MPPT Tracking Efficiency	99.9%
Max. Efficiency	91%
<b>GENERAL DATA</b>	
Parallel Capacity	1~6 Units
Dimension	27.95 × 19.09 × 6.10inch (710× 485× 155mm)
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/PV
Certificate	FCC Part15 ClassB/UL1741