

SUNON3.6

single phase
All-In-One Off-Grid Inverter
UL1741



DEALER PORTAL



Powerful Hybrid Charging

Supports charging up to 80A, 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 21.6kW.



WiFi & App Integration

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



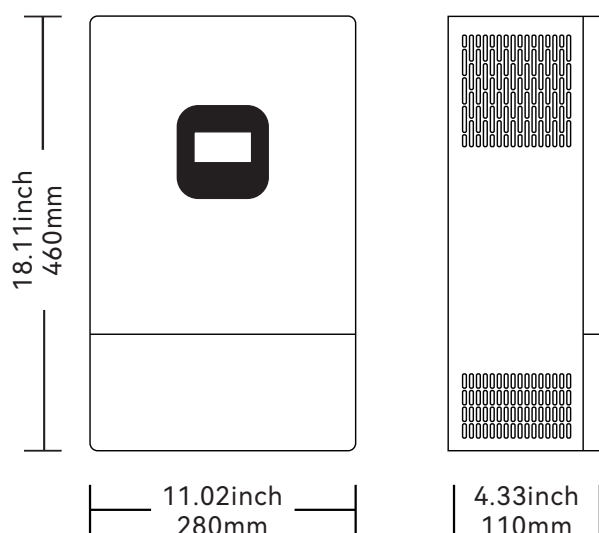
Reliable Backup Power

Seamless switching in $\leq 10\text{ms}$.



Versatile All-in-One Design

Integrates inverter, MPPT solar charger, and battery charger into one compact unit for easy installation.



Advanced solar energy storage solution compatible with 48v batteries, featuring a charging capacity of up to 80A. The innovative hybrid charging mode allows for 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 six units for a total capacity of 21.6kW. This inverter is ideal for both residential and commercial applications. Efficiently harness and manage solar energy for maximum savings and performance with the SUNON3.6.

MODEL	SUNON3.6
INVERTER OUTPUT	
Rated Output Power	3,600W
Max. Output Power	7,200VA
Rated Output Voltage	120Vac
Load capacity of Motors	2 HP
Rated Frequency	50/60Hz
Output Wave	Pure sine wave
Switching Time	10ms(typical value)
BATTERY	
Battery Type	Lithium-ion battery/lead-acid battery/user-defined battery
Rated Battery Voltage	48V
Volatge Range	40~60Vdc
Max. Solar Charging Current	80A
Max. Grid/Generator Charging Current	40A
Max. Hybrid Charge Current	80A
SOLAR INPUT	
No. Of MPPT	1
Max. Input Power	4,500W
Max. Input Current	27A
Max. Open Circuit Voltage	300Vdc
MPPT Voltage Range	90~260Vdc
GRID/GENERATOR INPUT	
Input Voltage Range	90~140Vac
Input Frequency Range	50/60Hz
Bypass Overload Current	40A
EFFICIENCY	
MPPT Tracking Efficiency	99%
Max. Efficiency	91%
GENERAL DATA	
Parallel Capacity	1~6 Units(Connecting two or more units in parallel provides split-phase output; three or more units support three-phase output)
Dimension	18.11×11.02×4.33 in(460×280×110 mm)
Weight	17.20lbs(7.8kg)
Noise	<60dB
Cooling Method	Intelligent fan
Protection Degree	IP20 Indoor Only
Temperature	-10~55°C, >45°C Derate
Warranty	3 years
Communication	RS485/CAN/USB/Dry Contact
External Module (Optional)	Wi-Fi
Integrated Circuit Breaker	—
Certificate	FCC Part15 ClassB / UL1741
OVERLOAD PROTECTION	
After overload protection is enabled, the inverter output will be restored after 3 min, and after 5 times of overload, the output will be off until the inverter is restarted.(102%125%: An error will be reported, and the output will be turned off after 5s.	