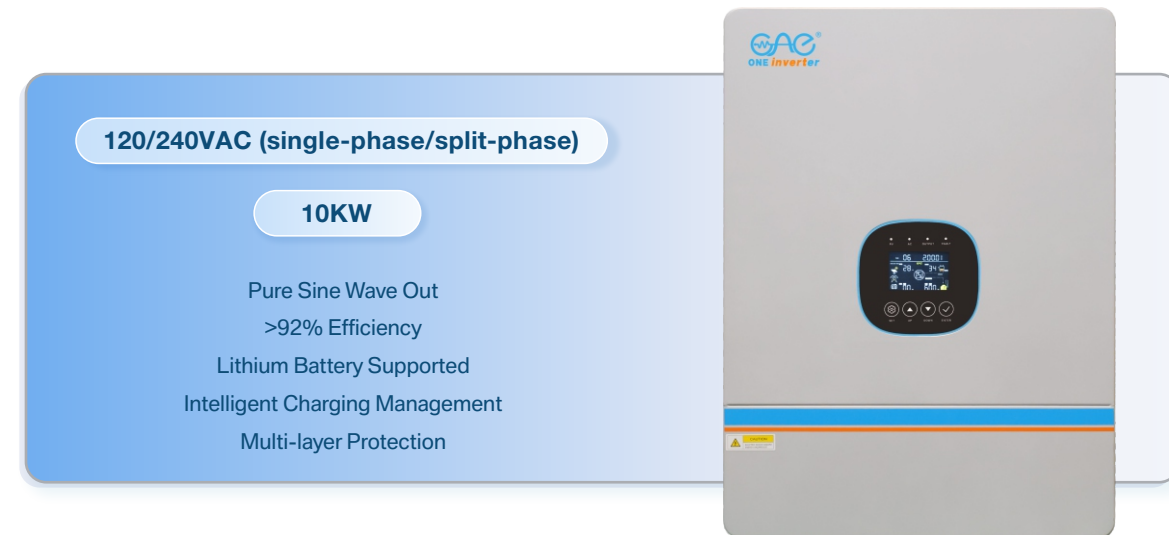


SPHV-Series

Off Grid Split Phase Solar Inverter

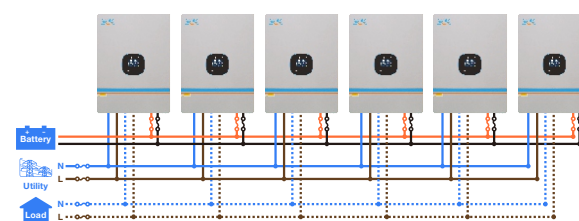


The SPHV Series is a professional hybrid solar inverter charger for backup, off-grid, and energy storage systems. It features pure sine wave output, 10KW rated power, 20KW surge power, ≤10ms typical value switching time, supports up to 1~6 units parallel connection, and includes a high-current charger (up to 200A maximum mix charge current) compatible with lead-acid and lithium batteries.

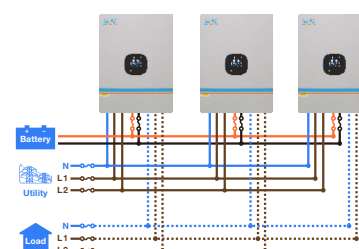
FEATURES

-  Rated power 10KW.
-  Pure sine wave AC output.
-  Parallel operation supported.
-  With BMS / COMM communication.
-  Wi-Fi remote monitoring (optional).
-  Grid-powered only, battery-free operation.
-  System will go to bypass and cut off charging if an error happens under utility grid mode.

PARALLEL & THREE-PHASE OPERATION UP TO 6 UNITS



Parallel Operation in Single phase



Support Split-phase Parallel Connection

MODEL	10KW
Rated output power	10KW
Maximum peak power	20KW
Rated output voltage	120/240VAC (single-phase/split-phase)
Loading motor capacity	6HP
Rated frequency	50/60Hz
Output wave	Pure sine wave
Switching time	10 ms (typical value)
Parallel number	1~6 units
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%< load <110%): An error will be reported, and the output will be turned off after 5 min. (110%< load <125%): An error will be reported, and the output will be turned off after 10s. Load >125%: An error will be reported, and the output will be turned off after 5s.
Battery	
Battery type	Lithium-ion battery/lead-acid battery/user-defined battery
Rated battery voltage	48Vdc
Voltage range	40Vdc~60Vdc
Maximum PV charge current	200A
Maximum mains/generator charge current	120A
Maximum mix charge current	200A
PV input	
MPPT channel number	2
Maximum input power	5500W+5500W
Maximum Input Current	22A+22A
Maximum open circuit voltage	500Vdc
MPPT operating voltage range	125Vdc~425Vdc
Mains/generator input	
Input voltage range	90VAC~140VAC
Input frequency range	50/60Hz
Bypass overload current	63A
Efficiency	
MPPT tracking efficiency	99%
Maximum efficiency of battery inverter	92%
General	
Product size(D*W*H)	650x475x147mm
Packing size(D*W*H)	765x590x245mm
N.W.(KG)	24.4KG
G.W.(KG)	27.42KG
Protection level	IP20, for indoor use only
Ambient temperature	-10°C~55°C, >45°C derating
Noise	<60dB
Cooling mode	Intelligent
Communication	
Built-in interface	RS485/CAN/USB/dry contact
External module (optional)	WiFi/GPRS