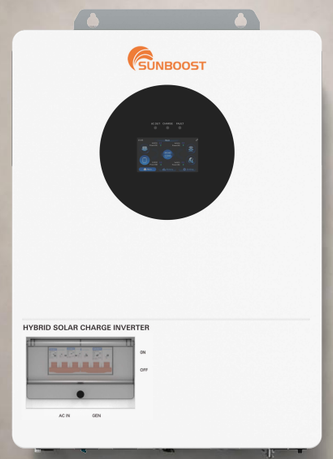
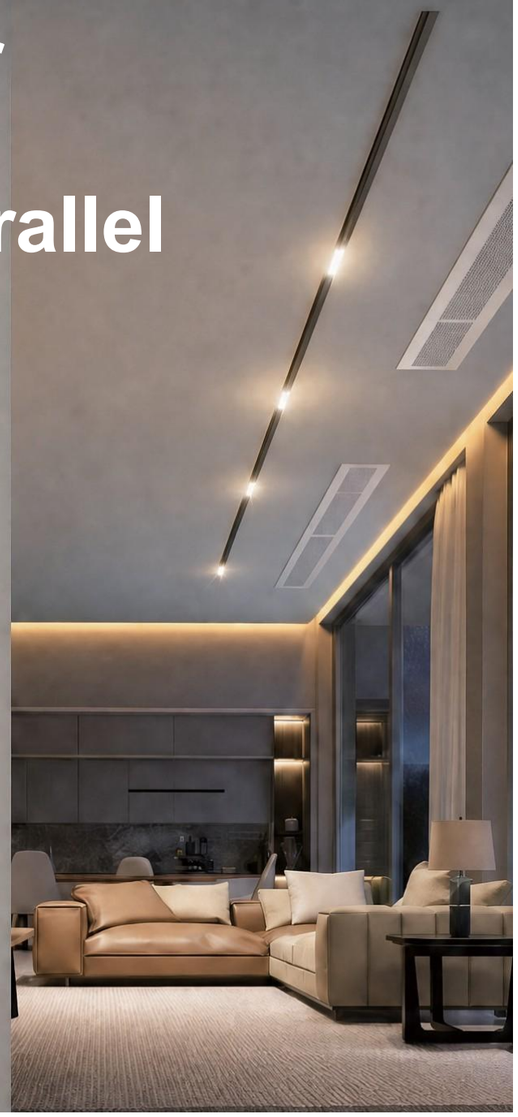
US-Hybrid inverter
16000W
Three phase-in Parallel





TPE48160M300-500XP

Product Features

- Three-Phase Independent CT Anti-Reverse Current + AC Coupling
- 150% Emergency Peak / 5s, 100% Unbalanced Load Capability
- 24kW Dual-Channel MPPT, 32A/12000W per Channel
- Up to 6 Units Parallel Expansion, Max. 90kW
- 10ms UPS-Level Switching, Critical Loads Uninterrupted
- 320A Continuous Discharge, 300A Max. Charging Current
- Dedicated Generator Input, Dry Contact Start/Stop Control
- Capacitive Touch Color Screen, Remote Diagnostics & OTA

SUNBOOST

TPE48160M250-500XP

Parallel mode	
Permitted parallel number	1~6
ACmode	
Rated input voltage	3L/N/PE 120/208Vac
Input voltage range	(85Vac~140Vac)±2%
Frequency	50Hz/60Hz (Auto detection)
Frequency Range	47+0.3Hz~55±0.3Hz (50Hz);57+0.3Hz~65+0.3Hz (60Hz)
Overload/short circuit protection	Circuit breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms (typical)
AC reverse protection	Yes
Maximum bypass overload current	3pole, 60A/60A/60A(L1/L2/L3)
Inverter mode	
Output voltage waveform	Pure sine wave
Rated output power (VA)	16000(VA)
Rated output power (W)	16000 (W)
Power factor	1
Rated output voltage (Vac)	3L/N/PE 120/208Vac
Output voltage error	±5%
Output frequency range (Hz)	50Hz+0.3Hz/60Hz+0.3Hz
Maximum Efficiency	>91%
Overload protection	(105% < load <110%) +5%: report error and tumn off theoutput after 5 minutes; (110% < load < 125%) 5%: report error and turn off theoutput after 10 seconds; Load >125% +5%: report error and tum off the outputafter 2 seconds
Peak power	22500VA
Loaded motor capability	7HP
Output short circuit protection	Can protect, after continuous short circuit for 1 second
Bypass circuit breaker specification	3pole, 63Aac/63Aac/63Aac(L1/L2/L3)
Rated battery input voltage	51.2Vdc (Minimum starting voltage 44Vdc)
Battery voltage range	40.0Vdc~58.6Vdc+0.6Vdc (Under voltagealarm/shutdown voltage/over voltage alarm/
	over voltage recovery... settable on LCD screen)
Power saving mode self-consump tion	Load per phase is null or less than 25W enterpower-saving mode
AC charging	
Battery type	Lead acid or lithium battery
Maximum charge current(can be set)	200Adc
Charge current error	±5Adc
Charge voltage range	40-58.6Vdc
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	3pole, 63Aac/63Aac/63Aac(L1/L2/L3)
Generator Mode	
Rated input voltage	3L/N/PE 120/208Vac
Input phase voltage range	(85Vac~140Vac)±2%
Frequency Range	40Hz~70Hz
Max charge current(can be set)	200Adc
Conversion time (Generatorand inverter)	10ms (typical)
PV charging	
Number of MPPT groups	2
MaximumPV open circuit voltage	500vdc
PV operating voltage range	90Vdc~485Vdc
MPPT voltage range	90Vdc~450Vdc
Battery voltage range	40-58.6Vdc
Maximum PV input power	12000W+12000W
Maximum PV input current	32Adc+32Adc
PV charge current(can be set)	300Adc
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Hybrid charging Max charger current specifications (AC/GEN charger+PV charger)	
Max charger current(can beset)	0-250Adc
Certified specifications	
Certification	UL1741/CSA C22.2#107.1
EMC certification level	FCC part15, CLASS B
Operating temperature range	-10° C to 55° C(>45° Cderating)
Storage temperature range	-25° C~60° C
Humidity range	5% to 95% (Conformal coating protection)
Noise	<60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communication interface	USB/RS485(/WiFi/GPRS)/ Dry node control
Size (L*W*D)	620mm*450mm*132mm
Weight (kg)	23.8