

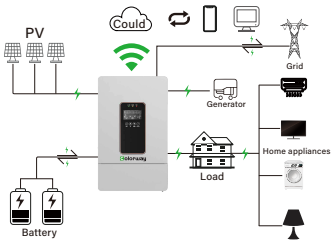
US STANDARD 110V SPLIT PHASE
SOLAR INVERTER

12KW Features

- Inverter and Grid hybrid Power supply capable of withstanding continuous impact loads.
- Pure sine wave
- 150% EPS peak output in 5s.
- Up to 6 inverters in parallel or change single phase system or three phase system.
- UPS-Level Switching time down to 10ms.
- Support faster charging with battery current up 220A.
- Support diesel generator input.
- Supports use without battery. PV and grid can supply power to load together.



Connection Overview



TECHNICAL PARAMETER

Model	UH12K0-48MH-S
AC Input	
Rated input voltage	120 (L1/N,L2/N) / 240Vac (L1/L2)
Frequency range	47 +0.3Hz~55+0.3Hz (50Hz) 57+0.3Hz~65+0.3Hz (60Hz)
Circuit breaker specifications	2pole, 63A/63A (L1/L2)
AC Output	
Rated Power	Split-phase: 12000W Single-phase: 7200W
Peak Power	Split-phase: 18000VA Single-phase: 18000VA
Rated Output Voltage	120Vac (L1/N, L2/N)/240Vac(L1/L2)
Output Frequency Range	50Hz±0.3Hz/60Hz±0.3Hz
Power Factor	1
Maximum Output Frequency	>91%
Output Voltage Error	±5%
Waveform	Pure sine wave
Overload Protection	(105% < Load < 110%) ±5%: Report an error and shut down the output after 5 minutes; (110% < Load < 125%) ±5%: Report an error and shut down the output after 10 seconds; Load > 125% ±5%: Report an error and shut down the output after 5 seconds;
Output Short Circuit Protection	It can still protect after one second of continuous short circuit.
Number of Units in Parallel Operation	1~6
Charger (PV / AC)	
PV Charging Method	Dual MPPT
MPPT Voltage Range	90-450VDC
PV Maximum Input Power	6000W+6000W/9000W+9000W
PV Maximum Input Current	22A+22A/27A+27A
PV Maximum Charging Current	0-220A / 0-250A
PV Operating Voltage Range	90Vdc~485Vdc
Maximum Charging Current (AC + PV)	0-220A / 0-250A
Battery	
Charging voltage range	40 ~58.6Vdc
Maximum discharge current	120A
Charging current error	±5Adc
Short circuit protection	Circuit breaker and blown fuse
Rated battery input voltage	51.2V (minimum starting voltage 44V)
Circuit breaker specifications	2pole, 63A / 63A (L1/L2)
Maximum hybrid charging current (PV+AC)	0-220A / 0-250A
General Data	
Certification	UL1741
EMC certification level	FCCpart15, CLASS B
Operating temperature range	-10°C to 55°C (>45°C derating)
Storage temperature range	-25°C ~ 60°C
Humidity range	5% to 95% (solder mask protection)
Noise level	≤60db
product size / packing size (mm)	620*450*132mm / -
Net / Gross Weight (kg)	23.8kg / -