

ISolar MLV-5KW-U Solar inverter control machine



★ Features:

- Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sinewave.
- Two output modes: mains bypass and inverter output; uninterrupted power supply.
- Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- Advanced MPPT technology with an efficiency of 99.9%.
- With the charging requirement (voltage, current, mode) settings, and suitable for various types of energystorage batteries.
- ON/OFF rocker switch for AC output control.
- Power saving mode available to reduce no-load loss.
- Intelligent variable speed fan to efficiently dissipate heat and extend system life.
- Lithium battery activation design, allowing access of lead-acid battery and lithium battery.
- 360 ° all-round protection with a number of protection functions. Such as overload, short circuit and overcurrent.
- Supply of a variety of user-friendly communication modules, such as RS485(GPRS, WiFi, Bluetooth), CAN, USB etc., and suitable for computer, mobile phones, Internet monitoring as well as remote operations.

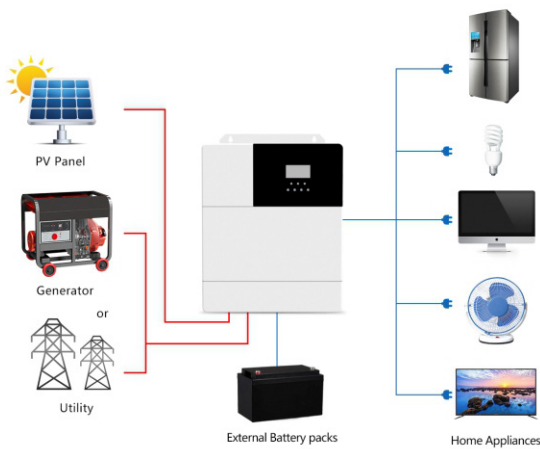
Off-Grid Inverter

Introduction:

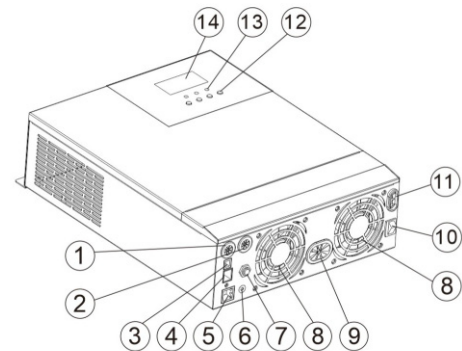
HF series is a new all-in-one hybrid solar charge inverter, which integrates solar energy storage & means charging energy storage and AC sine wave output. Thanks to DSP control and advanced control algorithm, it has high response speed, high reliability and high industrial standard.

Introduction:

Product connection diagram



Appearance



①	AC input port	⑧	Cooling fan
②	AC output port	⑨	Battery port
③	USB communication port	⑩	ON/OFF rocker switch
④	RS485/CAN communication port	⑪	PV port
⑤	Dry node port	⑫	Touch button
⑥	Grounding screw hole	⑬	LED Indicator
⑦	AC input Overload protector	⑭	LCD screen

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Models	ISolar MLV 5KW-U
AC mode	
Rated input voltage	110/120Vac
Input voltage range	(90Vac-140Vac) $\pm 2\%$
Frequency	50Hz/ 60Hz (auto-sensing)
Frequency Range	47 \pm 0.3Hz ~ 55 \pm 0.3Hz (50Hz)/57 \pm 0.3Hz ~ 65 \pm 0.3Hz (60Hz);
Overload/short circuit protection	Breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms (Typical value)
AC reverse protection	yes
Maximum bypass overload current	63A
Inverting mode	
Output voltage waveform	Pure sine wave
Rated output power(VA)	5000
Rated output power(W)	5000
Power factor	1
Rated output voltage (Vac)	120VAC
Output voltage error	$\pm 5\%$
Output frequency range (Hz)	50Hz \pm 0.3Hz/60Hz \pm 0.3Hz
Efficiency	>90%
Overload protection	(102%<load<110%) $\pm 10\%$: reporting error and turn off the output after 5 minutes; (110%<load<125%) $\pm 10\%$: reporting error and turn off the output after 10 seconds; Load>125% $\pm 10\%$: reporting error and turn off the output after 5 seconds;
Peak power	10000VA
Loaded motor capacity	4HP
Output short-circuit protection	Breaker
Specification of bypass breaker	63A
Rated battery input voltage	48V (minimum start voltage 44V)
Battery voltage range	40.0Vdc~60Vdc \pm 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restoration...settable LCD screen)
Power saving mode	Load \leq 25W
AC charge	
Battery type	Lead acid or lithium battery
Maximum charge current	40A
Charge current error	\pm 5A _{dc}
Charge voltage range	40~60V _{dc}
Short-circuit protection	Breaker and blown fuse
Breaker specification	63A
Overcharge protection	Turn off charge after 1min alarm
Solar charge	
Maximum PV opencircuit voltage	500V _{dc}
PV operation voltage range	120-500V _{dc}

Product specifications are subject to change without further notice.