

# **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,
- 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.

### 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 controlalgorithm, it has high response speed, high reliability and high industrial standard.

## Introduction:

Product connection diagram







#### ISolar MLV 5KW-U Solar inverter control machine

AC mode       110/120Vac         Rated input voltage       110/120Vac         Input voltage range       (90Vac-140Vac) ±2%         Frequency       50Hz/50Hz (auto-sensing)         Frequency Range       47±0.3Hz <55±0.3Hz (50Hz/70-3Hz <65±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	Models	ISolar MLV 5KW-U
Input voltage range         (90Vac-140Vac) ±2%           Frequency         50Hz/60Hz (auto-sensing)           Frequency Range         47±0.3Hz ~ 55±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         0utput voltage waveform           Output voltage waveform         Pure sine wave           Rated output power(VA)         5000           Rated output power(VA)         5000           Rated output power(VV)         5000           Output voltage error         120VAC           Output voltage error         15%           Output voltage error         15%           Output voltage error         1100KC           Overload protection         (102%-cload-110%) treporting error and turn off the output after 10 seconds;           Coverload protection         (110%-cload-125%) 10%: reporting error and tur off the output after 5 second;           Peak power         63A           Coverload protection         Breaker           Specification of bypass breaker         63A           Rated battery in	AC mode	
Frequency       50Hz/60Hz (auto-sensing)         Frequency Range       47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±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       0         Output voltage waveform       Pure sine wave         Rated output power(VA)       5000         Power factor       1         Rated output power(VA)       5000         Power factor       1         Rated output voltage (Vac)       120VAC         Output voltage error       ±5%         Output voltage error       ±5%         Output voltage error       ±6%         Output voltage error       ±6%         Output voltage error       ±10%: reporting error and turn off the output after 5 minutes;         Overload protection       (110% <load<110%) 5="" after="" and="" error="" off="" output="" reporting="" seconds;<="" td="" the="" turn="" ±10%:="">         Loaded motor capacity       4HP         Output voltage       400Vdc~60Vdc ± 0.6Vdc (undervoltage after 44V)         Battery voltage range       40.0Vdc~60Vdc ± 0.6Vdc (undervoltage after 44V)</load<110%)>	Rated input voltage	110/120Vac
Frequency Range       47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±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       0utput voltage waveform         Pure sine wave       84ed output power(VA)         Stated output power(W)       5000         Pated output power(VA)       5000         Rated output power(VA)       5000         Pated output voltage (Vac)       120VAC         Output voltage (Vac)       120VAC         Output voltage error       ±5%         Output frequency range (Hz)       50Hz ± 0.3Hz (BHz ± 0.3Hz         Efficiency       >90%         (102% <load<110%) 10%:="" and<br="" error="" reporting="" ±="">turn off the output after 5 minutes;         Overload protection       (110%<load<110%) 10%:="" and<br="" error="" reporting="" ±="">turn off the output after 5 seconds;         Load       Load       10000VA         Load       10000VA       63A         Rated output protection       Breaker         Specification of bypass breaker       63A         Rated battery input voltage       40.0Vdc~60Vdc ± 0.6Vdc (und</load<110%)></load<110%)>	Input voltage range	(90Vac-140Vac) ±2%
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         0           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         ±5%           Output voltage error         ±5%           Output voltage error         ±5%           Output requency range (Hz)         50Hz ± 0.3Hz/E0Hz ± 0.3Hz           Efficiency         >90%           (102%-load<110%) ± 10%: reporting error and	Frequency	50Hz/ 60Hz (auto-sensing)
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         0           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         ±5%           Output forgeuency range (Hz)         50Hz ± 0.3Hz/z60Hz ± 0.3Hz           Efficiency         >90%           Overload protection         (110%           (110%         10%: reporting error and           turn off the output after 10 seconds;           Loaded motor capacity         4HP           Output short-circuit protection         Breaker           Specification of bypass breaker         63A           Rated battery input voltage	Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);
Conversion time (bypass and inverter)         10ms (Typical value)           AC reverse protection         yes           Maximum bypass overload current         63A           Inverting mode         0           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         ±5%           Output voltage error         ±5%           Output voltage error         ±5%           Output voltage error         ±5%           Output voltage error         ±100VAC           Values of the output after 5 minutes;         (102% <load<load<load<load<load<load<load<load< td=""><td></td><td>Breaker</td></load<load<load<load<load<load<load<load<>		Breaker
AC reverse protection       yes         Maximum bypass overload current       63A         Inverting mode       0         Output voltage waveform       Pure sine wave         Rated output power(VA)       5000         Rated output power(VA)       5000         Power factor       1         Rated output voltage (Vac)       120VAC         Output voltage error       ±5%         Output voltage error       1.5%         Output voltage error       1.0%:reporting error and         turn off the output after 5 minutes;       0         Overload protection       (102% <load<110%) and<="" error="" reporting="" td="" ±10%:="">         turn off the output after 5 seconds;       Load&lt;125% ±10%: reporting error and turn off</load<110%)>	Efficiency	>95%
AC reverse protection       yes         Maximum bypass overload current       63A         Inverting mode       0utput voltage waveform         Qutput voltage waveform       Pure sine wave         Rated output power(VA)       5000         Rated output power(VA)       5000         Power factor       1         Rated output voltage (Vac)       120VAC         Output voltage error       ±5%         Output voltage error       108/2         Stellciency       >90%         Verload protection       (102% <load<110%) 5="" after="" and="" error="" minutes;<="" off="" output="" reporting="" td="" the="" turn="" ±10%:="">         Overload protection       (110%<cload<125%) 5="" after="" and="" error="" off="" output="" reporting="" seconds;<="" td="" the="" turn="" ±10%:="">         Loaded motor capacity       4HP         Output short-circuit protection       Breaker         Specification of bypass breaker       63A         Rated battery input voltage       40.0Vdc-60Vdc ± 0.6Vdc (undervoltage alarm/lumoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load &lt;25W</cload<125%)></load<110%)>	Conversion time (bypass and inverter)	10ms (Typical value)
Inverting mode           Output voltage waveform         Pure sine wave           Rated output power(VA)         5000           Rated output power(V)         5000           Power factor         1           Rated output voltage (Vac)         120VAC           Output voltage error         ±5%           Output voltage error         10%           Output frequency range (Hz)         50Hz ± 0.3Hz/60Hz ± 0.3Hz           Efficiency         >90%           (102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;           Overload protection         (110%           Verload protection         (110% sicporting error and turn off the output after 10 seconds;           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 ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorent)           Power saving mode         Load ≤25W           AC charge         Lead acid or lithium battery           Battery type         Lead acid or lithium battery           Maximum charge current         40A           Cha</load<110%)>		· • • •
Output Voltage waveform         Pure sine wave           Rated output power(VA)         5000           Rated output power(VA)         5000           Power factor         1           Rated output voltage (Vac)         120VAC           Output voltage error         ±5%           Output frequency range (Hz)         50Hz ± 0.3Hz/60Hz ± 0.3Hz           Efficiency         >90%           (102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;           Overload protection         (110% <load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 seconds;           Loaded motor capacity         4HP           Output short-circuit protection         Breaker           Specification of bypass breaker         63A           Rated battery input voltage         40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alamn/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)           Power saving mode         Load 225W           AC charge         Load acid or lithium battery           Battery type         Lead acid or lithium battery           Maximum charge current         40A           Charge error         ± 5Adc           Charge protection         Breaker and blown fuse           Breaker specification         Breaker           SA         25W<td>Maximum bypass overload current</td><td>63A</td></load<125%)></load<110%)>	Maximum bypass overload current	63A
Output Voltage waveform         Pure sine wave           Rated output power(VA)         5000           Rated output power(VA)         5000           Power factor         1           Rated output voltage (Vac)         120VAC           Output voltage error         ±5%           Output frequency range (Hz)         50Hz ± 0.3Hz/60Hz ± 0.3Hz           Efficiency         >90%           (102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;           Overload protection         (110% <load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 seconds;           Loaded motor capacity         4HP           Output short-circuit protection         Breaker           Specification of bypass breaker         63A           Rated battery input voltage         40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alamn/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)           Power saving mode         Load 225W           AC charge         Load acid or lithium battery           Battery type         Lead acid or lithium battery           Maximum charge current         40A           Charge error         ± 5Adc           Charge protection         Breaker and blown fuse           Breaker specification         Breaker           SA         25W<td>Inverting mode</td><td></td></load<125%)></load<110%)>	Inverting mode	
Rated output power(VA)       5000         Rated output power(W)       5000         Power factor       1         Rated output voltage (Vac)       120VAC         Output frequency range (Hz)       50Hz t. 3.14z/60Hz ± 0.3Hz         Efficiency       >90%         (102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;         Overload protection       (110%<load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;         Overload protection       (110%<load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 seconds;         Load&lt;&gt;125% ±10%: reporting error and turn off the output after 5 seconds;         Load&lt;&gt;125% ±10%: reporting error and turn off the output after 5 seconds;         Load&lt;&gt;10000VA         Loaded motor capacity       4HP         Output short-circuit protection       Breaker         Specification of bypass breaker       63A         Rated battery input voltage       40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load &lt;25W</load<125%)></load<125%)></load<110%)>		Pure sine wave
Rated output power(W)       5000         Power factor       1         Rated output voltage (Vac)       120VAC         Output frequency range (Hz)       50Hz ± 0.3Hz/60Hz ± 0.3Hz         Efficiency       >90%         (102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;         Overload protection       (110%<load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 10 seconds;         Load&lt;&gt;125% ±10%: reporting error and turn off the output after 5 seconds;         Peak power       1000VA         Load&lt;&gt;125% ±10%: reporting error and turn off         Load&lt;&gt;125% ±10%: reporting error and turn off         the output after 5 seconds;         Peak power       1000VA         Loaded notor capacity       4HP         Output short-circuit protection       Breaker         Specification of bypass breaker       63A         Rated battery input voltage       40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load ≤25W         AC charge       Lead acid or lithium battery         Maximum charge current       40A         Charge current error       ± 5Adc         Charge voltage range       40-60Vdc         Breaker specification       63A</load<125%)></load<110%)>		5000
Rated output voltage (Vac)         120VAC           Output voltage error         ±5%           Output frequency range (Hz)         50Hz ± 0.3Hz/60Hz ± 0.3Hz           Efficiency         >90%           (102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;           Overload protection         (110%           Uput short-circuit protection         (110%           Dutput short-circuit protection         Erreaker           Specification of bypass breaker         63A           Rated battery input voltage         40A           Ac charge         Load &lt;255W</load<110%)>		5000
Output voitage error         ±5%           Output frequency range (Hz)         50Hz ± 0.3Hz           Efficiency         >90%           (102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;           Overload protection         (110%<load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 10 seconds;           Load         Load&lt;&gt;125% ±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 ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)           Power saving mode         Load &lt;25W</load<125%)></load<110%)>	Power factor	1
Output voltage error         ±5%           Output frequency range (Hz)         50Hz ± 0.3Hz/60Hz ± 0.3Hz           Efficiency         >90%           (102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;           Overload protection         (110%           (110%         10%: reporting error and turn off the output after 10 seconds;           Load&gt;125% ±10%: reporting error and turn off the output short-circuit protection         Ereaker           Specification of bypass breaker         63A           Rated battery input voltage         40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)           Power saving mode         Load            AC charge         Eattery type           Battery type         Lead acid or lithium battery           Maximum charge current         40A           Charge voltage range         40-60Vdc           Breaker and blown fuse           Breaker specification         63A</load<110%)>	Rated output voltage (Vac)	120VAC
Output frequency range (Hz)         50Hz ± 0.3Hz/60Hz ± 0.3Hz           Efficiency         >90%           (102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;           Overload protection         (110%<load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes;           Overload protection         (110%<load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 seconds;           Load&gt;125% ±10%: reporting error and turn off the output after 5 seconds;         Load&gt;125% ±10%: reporting error and turn off           Dutput short-circuit protection         Breaker           Specification of bypass breaker         63A           Rated battery input voltage         48V (minimum start voltage 44V)           Battery voltage range         40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)           Power saving mode         Load ≤25W           AC charge         40A           Battery type         Lead acid or lithium battery           Maximum charge current         40A           Charge voltage range         40-60Vdc           Breaker and blown fuse         Breaker and blown fuse           Breaker specification         63A</load<125%)></load<125%)></load<110%)>		
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(102% <load<110%) and<br="" error="" reporting="" ±10%:="">turn off the output after 5 minutes; (110%<load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 10 seconds; Load&gt;125% ±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         40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)           Power saving mode         Load &lt;25W</load<125%)></load<110%)>		>90%
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Overload protection       (110% <load<125%) and<br="" error="" reporting="" ±10%:="">turn off the output after 10 seconds;         Load&gt;125% ±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 ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load ≤25W         AC charge       Lead acid or lithium battery         Battery type       Lead acid or lithium battery         Maximum charge current       40A         Charge voltage range       40°-60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A</load<125%)>	Overload protection	turn off the output after 5 minutes:
turn off the output after 10 seconds;         Load>125% ±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 ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load ≥25W         AC charge       40A         Battery type       Lead acid or lithium battery         Maximum charge current       40A         Charge voltage range       40-60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A		•
Load>125% ±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 ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)           Power saving mode         Load ≤25W           AC charge         40A           Battery type         Lead acid or lithium battery           Maximum charge current         40A           Charge voltage range         40~60Vdc           Sattery type         Lead acid or lithium battery           Maximum charge current         40A           Charge voltage range         40~60Vdc           Short-circuit protection         Breaker and blown fuse           Breaker specification         63A           Overcharge protection         Turn off charge after 1min alarm		
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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 ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load ≤25W         AC charge       40A         Battery type       Lead acid or lithium battery         Maximum charge current       40A         Charge voltage range       40-60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A		$125\% \pm 10\%$ : reporting error and turn on the output after 5 seconds:
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 ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load ≤25W         AC charge       Lead acid or lithium battery         Maximum charge current       40A         Charge voltage range       40~60Vdc         Battery type       Lead acid or lithium battery         Maximum charge current       40A         Charge voltage range       40~60Vdc         Breaker and blown fuse       Breaker and blown fuse         Breaker specification       63A	Peak power	
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 ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)           Power saving mode         Load ≤25W           AC charge         Battery type           Battery type         Lead acid or lithium battery           Maximum charge current         40A           Charge voltage range         40~60Vdc           Short-circuit protection         Breaker and blown fuse           Breaker specification         63A		4HP
Specification of bypass breaker       63A         Rated battery input voltage       48V (minimum start voltage 44V)         Battery voltage range       40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load ≤25W         AC charge       Lead acid or lithium battery         Battery type       Lead acid or lithium battery         Maximum charge current       40A         Charge voltage range       40~60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A         Overcharge protection       Turn off charge after 1min alarm		Breaker
Rated battery input voltage       48V (minimum start voltage 44V)         Battery voltage range       40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load ≤25W         AC charge       Eattery type         Battery type       Lead acid or lithium battery         Maximum charge current       40A         Charge voltage range       40A         Charge voltage range       40~60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A         Overcharge protection       Turn off charge after 1min alarm		63A
Battery voltage range       40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage		48V (minimum start voltage 44V)
Battery Voltage range       alarm/overvoltage restorationsettable LCD screen)         Power saving mode       Load <25W		40.0Vdc~60Vdc + 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage
Power saving mode       Load ≤25W         AC charge       Battery type         Battery type       Lead acid or lithium battery         Maximum charge current       40A         Charge current error       ± 5Adc         Charge voltage range       40~60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A         Overcharge protection       Turn off charge after 1min alarm		
AC charge         Battery type       Lead acid or lithium battery         Maximum charge current       40A         Charge current error       ± 5Adc         Charge voltage range       40~60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A         Overcharge protection       Turn off charge after 1min alarm	Power saving mode	
Battery type       Lead acid or lithium battery         Maximum charge current       40A         Charge current error       ± 5Adc         Charge voltage range       40~60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A         Overcharge protection       Turn off charge after 1min alarm		
Maximum charge current       40A         Charge current error       ± 5Adc         Charge voltage range       40~60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A         Overcharge protection       Turn off charge after 1min alarm		Lead acid or lithium battery
Charge current error       ± 5Adc         Charge voltage range       40~60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A         Overcharge protection       Turn off charge after 1min alarm		
Charge voltage range       40~60Vdc         Short-circuit protection       Breaker and blown fuse         Breaker specification       63A         Overcharge protection       Turn off charge after 1min alarm		± 5Adc
Short-circuit protection         Breaker and blown fuse           Breaker specification         63A           Overcharge protection         Turn off charge after 1min alarm	, ,	40~60Vdc
Breaker specification     63A       Overcharge protection     Turn off charge after 1min alarm		
	Overcharge protection	Turn off charge after 1min alarm
	Solar charge	v
Maximum PV opencircuit voltage 500Vdc		500Vdc
PV operation voltage range 120-500Vdc		

Product specifications are subject to change without further notice.