



String Solar Inverter Product Specification

Partner of Choice Worldwide
All-in-One Off/On-Grid
Expertise | Always by Your Side

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SHENZHEN HINVERT ELECTRONICS CO., LTD.

ABOUT HINVERT

Shenzhen HINVERT Electronics Co., Ltd., founded in 2019, is a global leader in residential energy storage inverters and solar solutions. With a core team of 12+ years of expertise in renewable energy, we deliver cutting-edge self-developed technologies and Reliability verification that conforms to international standards, empowering households in 50+ countries with cost-effective, smart, and sustainable energy storage systems.



2019

Established in 2019.



100+

More than 100 personnel.



9000m²

Plant area of about 9000 square meters.



50+

It has been exported to nearly 50 countries and regions.



100M+

Annual income of over 100 million.

► Corporate culture



• CORPORATE VISION

HINVERT-Powering Your Sustainable Future.
Smart Energy for Every Home - Cost-Effective Residential Storage Inverters.



• CORPORATE MISSION

Empower Diversely, Create Together.



• CORE VALUES

Customer first, technology-driven, reliable and win-win.



• BRAND POSITIONING

HINVERT - Your Reliable Partner in PV Inverter Innovation.
Trusted by Distributors in 50+ Countries | Expert in Residential EnergyStorage | 24/7 Technical Support.



• PRODUCT POSITIONING

Innovator of Cost-Effective Quality: We avoid price wars and focus on engineer-driven solutions that balance high reliability with affordability, making green energy accessible to all.

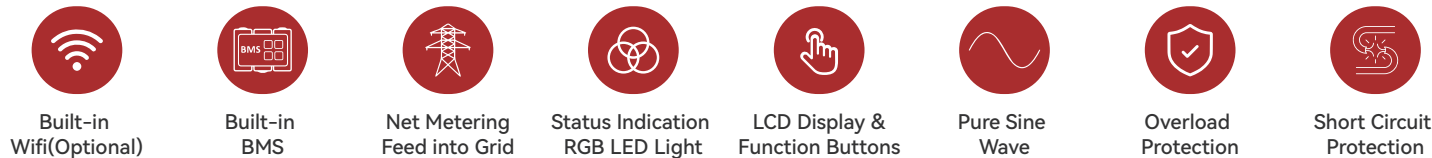


HMK PLUS OFF GRID INVERTER

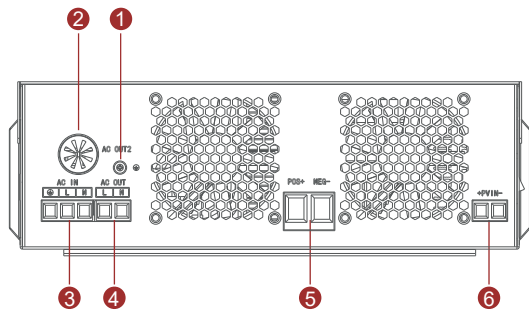
HMK PLUS 1500W-12V

Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Built-in communication port for BMS.
- Configurable AC/Solar input priority via LCD setting.

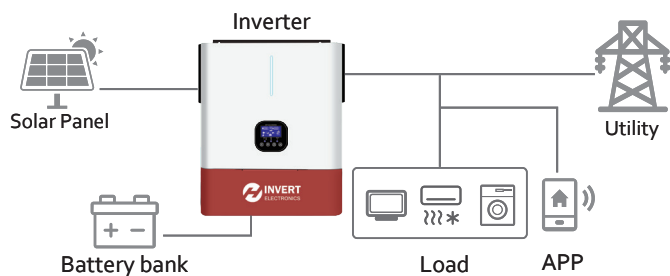


Conneation ports

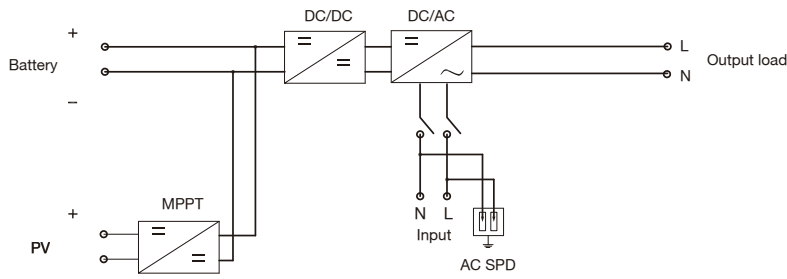


- 1. GND
- 2. AC OUT 2(Optional)
- 3. AC input
- 4. AC output
- 5. Battery
- 6. Solar/PV

Solar system connection



Schematic diagram



DATASHEET	HMK PLUS 1500-12
RATED POWER	1500W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
MPPT Tracker Number	1
Maximum input current of PV	27 A
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	3000VA
Efficiency (Peak) PV to INV	97%
Efficiency (Peak) Battery to INV	94%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Output Port	Dual output(Optional)
Waveform	Pure sine wave
BATTERY & AC CHARGER	
Battery Voltage	12 VDC
Floating Charge Voltage	13.5 VDC
Overcharge Protection	16 VDC
Maximum Charge Current	80 A(From grid)
SOC display	Shows battery State of charge in percentage and in voltage as well
Sleeping Mode	YES
Battery voltage low cut off selectable	11V-15V
Battery High voltage range selectable	12V-16V
Works without Battery	YES
SOLAR CHARGER	
Maximum PV Array Power	2000W
MPPT Range @ Operating Voltage	60-430 VDC
Maximum PV Array Open Circuit Voltage	450 VDC
Municipal electricity	80 A
Maximum Efficiency	98%
PHYSICAL	
Dimension, D x W x H (mm)	128*300*363
Net Weight (kgs)	6.9
Communication interface	USB/RS232/RS485/WIFI(Optional)
LCD display	General LCD
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C - 55°C
Storage Temperature	-15°C - 60°C
Waterproof grade	IP20

Product specifications are subject to change without further notice.

HMK PLUS OFF GRID INVERTER

HMK PLUS 2500W-24V

Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Built-in communication port for BMS.
- Configurable AC/Solar input priority via LCD setting.



Built-in
Wifi(Optional)



Built-in
BMS



Net Metering
Feed into Grid



Status Indication
RGB LED Light



LCD Display &
Function Buttons



Pure Sine
Wave

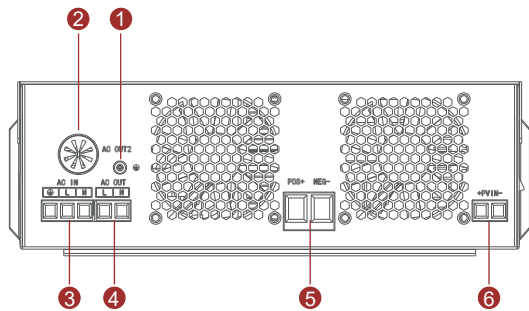


Overload
Protection



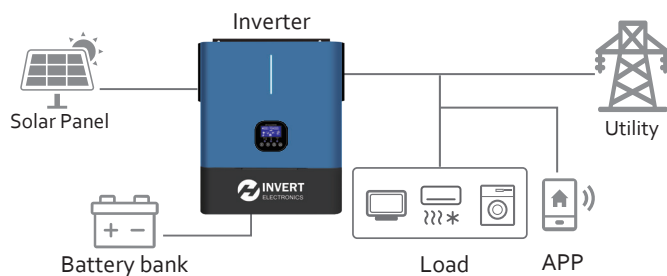
Short Circuit
Protection

Conneation ports

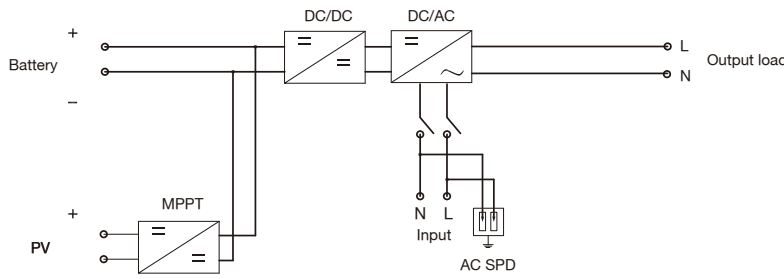


1. GND
2. AC OUT 2(Optional)
3. AC input
4. AC output
5. Battery
6. Solar/PV

Solar system connection



Schematic diagram



DATASHEET	HMK PLUS 2500-24
RATED POWER	2500W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
MPPT Tracker Number	1
Maximum input current of PV	27 A
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	5000VA
Efficiency (Peak) PV to INV	97%
Efficiency (Peak) Battery to INV	94%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Output Port	Dual output(Optional)
Waveform	Pure sine wave
BATTERY & AC CHARGER	
Battery Voltage	24 VDC
Floating Charge Voltage	27 VDC
Overcharge Protection	33 VDC
Maximum Charge Current	80 A(From grid)
SOC display	Shows battery State of charge in percentage and in voltage as well
Sleeping Mode	YES
Battery voltage low cut off selectable	21V-24V
Battery High voltage range selectable	25V-30V
Works without Battery	YES
SOLAR CHARGER	
Maximum PV Array Power	3000W
MPPT Range @ Operating Voltage	60-430 VDC
Maximum PV Array Open Circuit Voltage	450 VDC
Municipal electricity	80 A
Maximum Efficiency	98%
PHYSICAL	
Dimension, D x W x H (mm)	128*300*363
Net Weight (kgs)	8.5
Communication interface	USB/RS232/RS485/WIFI(Optional)
LCD display	General LCD
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C - 55°C
Storage Temperature	-15°C - 60°C
Waterproof grade	IP20

Product specifications are subject to change without further notice.

HMK PLUS OFF GRID INVERTER

HMK PLUS 3600W-24V

Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Built-in communication port for BMS.
- Configurable AC/Solar input priority via LCD setting.



Built-in
Wifi(Optional)



Built-in
BMS



Net Metering
Feed into Grid



Status Indication
RGB LED Light



LCD Display &
Function Buttons



Pure Sine
Wave

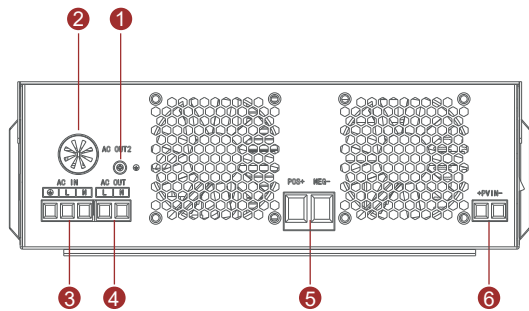


Overload
Protection



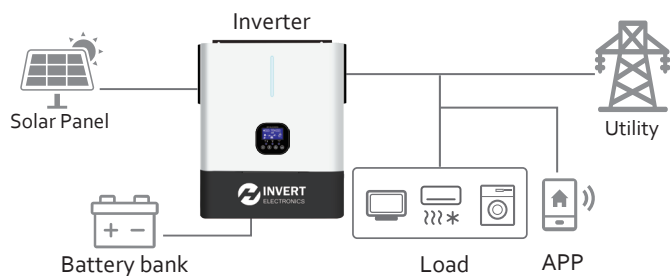
Short Circuit
Protection

Conneation ports

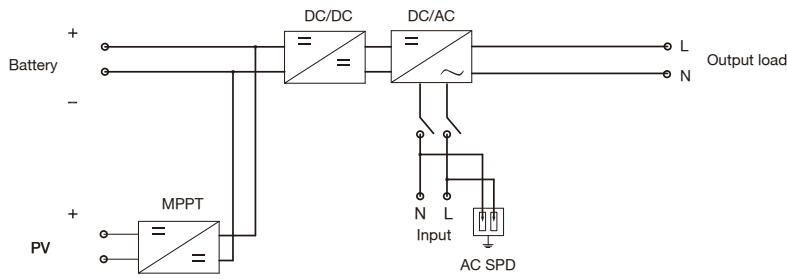


1. GND
2. AC OUT 2(Optional)
3. AC input
4. AC output
5. Battery
6. Solar/PV

Solar system connection



Schematic diagram



DATASHEET	HMK PLUS 3600-24
RATED POWER	3600W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
MPPT Tracker Number	1
Maximum input current of PV	27 A
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	7200VA
Efficiency (Peak) PV to INV	97%
Efficiency (Peak) Battery to INV	94%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Output Port	Dual output(Optional)
Waveform	Pure sine wave
BATTERY & AC CHARGER	
Battery Voltage	24 VDC
Floating Charge Voltage	27 VDC
Overcharge Protection	33 VDC
Maximum Charge Current	100 A(From grid)
SOC display	Shows battery State of charge in percentage and in voltage as well
Sleeping Mode	YES
Battery voltage low cut off selectable	21V-24V
Battery High voltage range selectable	25V-30V
Works without Battery	YES
SOLAR CHARGER	
Maximum PV Array Power	5000W
MPPT Range @ Operating Voltage	60-450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Municipal electricity	120 A
Maximum Efficiency	98%
PHYSICAL	
Dimension, D x W x H (mm)	128*300*363
Net Weight (kgs)	8.7
Communication interface	USB/RS232/RS485/WIFI(Optional)
LCD display	General LCD
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C - 55°C
Storage Temperature	-15°C - 60°C
Waterproof grade	IP20

Product specifications are subject to change without further notice.

HMK PLUS OFF GRID INVERTER

HMK PLUS 6000W-48V

Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Built-in communication port for BMS.
- Configurable AC/Solar input priority via LCD setting.



Built-in
Wifi(Optional)



Built-in
BMS



Net Metering
Feed into Grid



Status Indication
RGB LED Light



LCD Display &
Function Buttons



Pure Sine
Wave

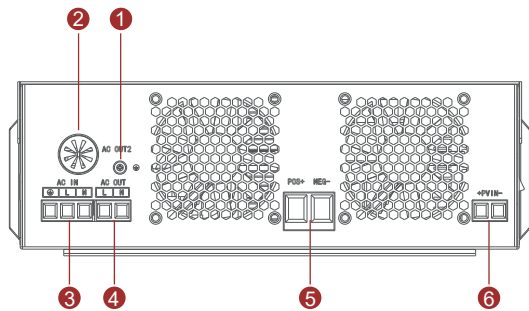


Overload
Protection



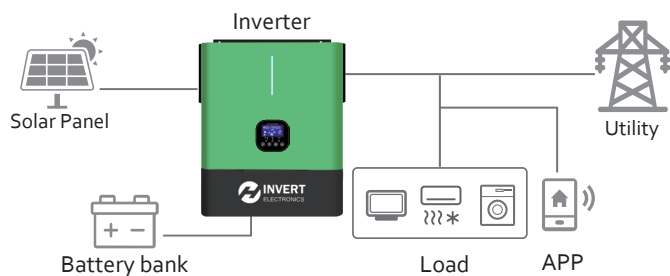
Short Circuit
Protection

Conneation ports

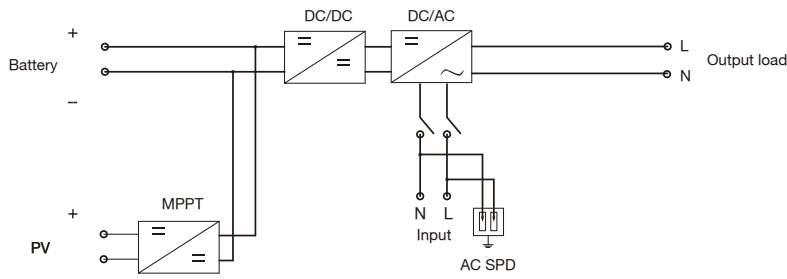


1. GND
2. AC OUT 2(Optional)
3. AC input
4. AC output
5. Battery
6. Solar/PV

Solar system connection



Schematic diagram



DATASHEET	HMK PLUS 6000-48
RATED POWER	6000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
MPPT Tracker Number	1
Maximum input current of PV	27 A
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%
Surge Power	12000VA
Efficiency (Peak) PV to INV	97%
Efficiency (Peak) Battery to INV	94%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Output Port	Dual output(Optional)
Waveform	Pure sine wave
BATTERY & AC CHARGER	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	61 VDC
Maximum Charge Current	100 A(From grid)
SOC display	Shows battery State of charge in percentage and in voltage as well
Sleeping Mode	YES
Battery voltage low cut off selectable	42V-49V
Battery High voltage range selectable	50V-60V
Works without Battery	YES
SOLAR CHARGER	
Maximum PV Array Power	6500W
MPPT Range @ Operating Voltage	60-450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Municipal electricity	120 A
Maximum Efficiency	98%
PHYSICAL	
Dimension, D x W x H (mm)	128*300*363
Net Weight (kgs)	8.9
Communication interface	USB/RS232/RS485/WIFI(Optional)
LCD display	General LCD
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C - 55°C
Storage Temperature	-15°C - 60°C
Waterproof grade	IP20

Product specifications are subject to change without further notice.

HMK PLUS OFF GRID INVERTER

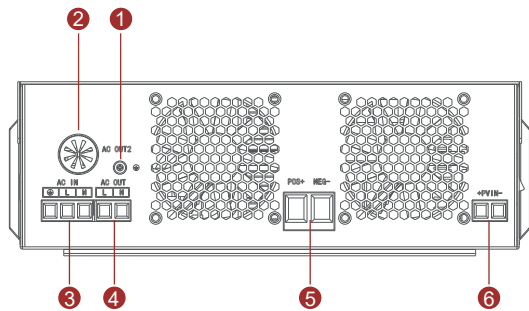
HMK PLUS 6200W-48V

Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Built-in communication port for BMS.
- Configurable AC/Solar input priority via LCD setting.

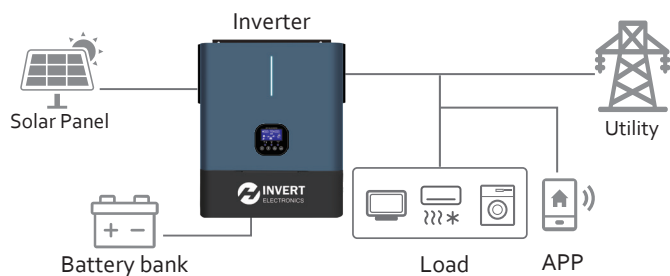


Conneation ports

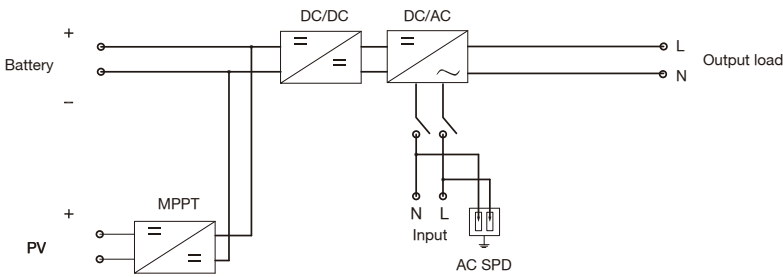


- 1. GND
- 2. AC OUT 2(Optional)
- 3. AC input
- 4. AC output
- 5. Battery
- 6. Solar/PV

Solar system connection



Schematic diagram



DATASHEET	HMK PLUS 6200-48
RATED POWER	6200W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
MPPT Tracker Number	1
Maximum input current of PV	27 A
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	12400VA
Efficiency (Peak) PV to INV	97%
Efficiency (Peak) Battery to INV	94%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Output Port	Dual output(Optional)
Waveform	Pure sine wave
BATTERY & AC CHARGER	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	61 VDC
Maximum Charge Current	100 A(From grid)
SOC display	Shows battery State of charge in percentage and in voltage as well
Sleeping Mode	YES
Battery voltage low cut off selectable	42V-49V
Battery High voltage range selectable	50V-60V
Works without Battery	YES
SOLAR CHARGER	
Maximum PV Array Power	6500W
MPPT Range @ Operating Voltage	60-450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Municipal electricity	120 A
Maximum Efficiency	98%
PHYSICAL	
Dimension, D x W x H (mm)	128*300*363
Net Weight (kgs)	10.6
Communication interface	USB/RS232/RS485/WIFI(Optional)
LCD display	General LCD
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C - 55°C
Storage Temperature	-15°C - 60°C
Waterproof grade	IP20

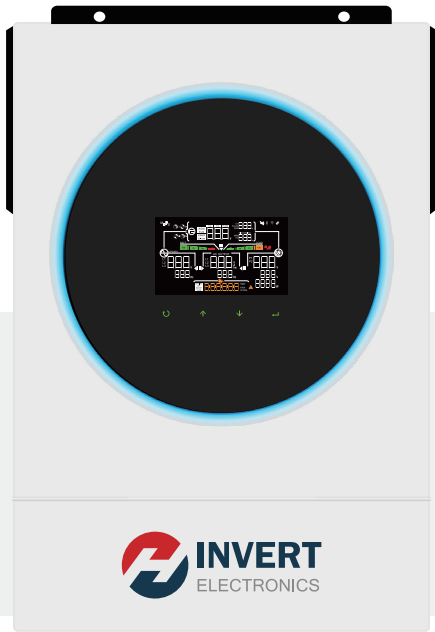
Product specifications are subject to change without further notice.

HMK PLUS HYBRID INVERTER

HMK PLUS 1.5KW-2.5KW(12V-24V)

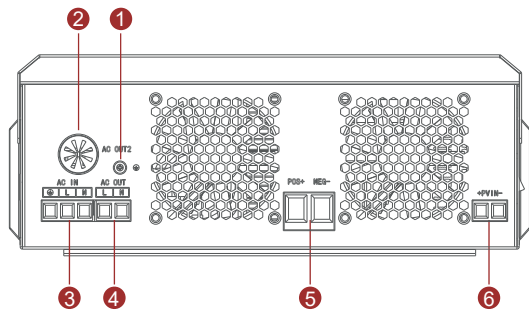
Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Built-in communication port for BMS.
- Configurable AC/Solar input priority via LCD setting.

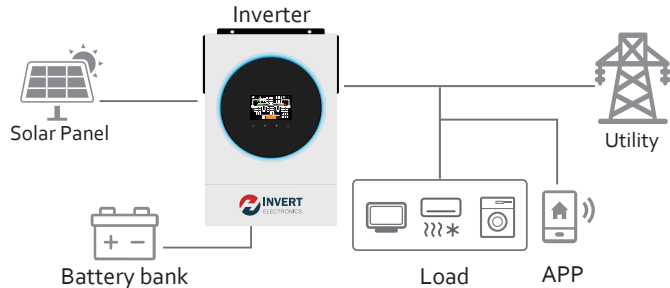


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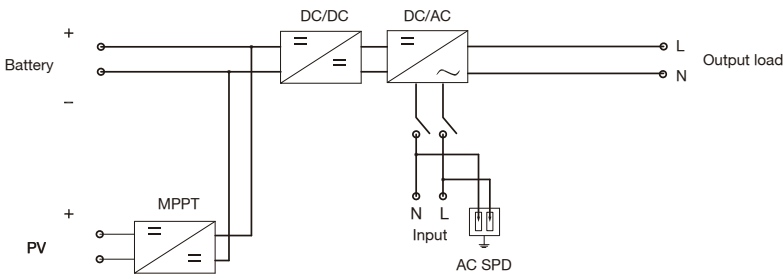
Conneation ports



Solar system connection



Schematic diagram



DATASHEET	1.5KW	2.5KW
RATED POWER	1500W	2500W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
MPPT Tracker Number	1	
Maximum input current of PV	27 A	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	3000VA	5000VA
Efficiency (Peak) PV to INV	97%	
Efficiency (Peak) Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Output Port	Dual output(Optional)	
Waveform	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	12 VDC	24 VDC
Floating Charge Voltage	13.5 VDC	27 VDC
Overcharge Protection	16 VDC	33 VDC
Maximum Charge Current	80 A(From grid)	
SOC display	Shows battery State of charge in percentage and in voltage as well	
Sleeping Mode	YES	
Battery voltage low cut off selectable	11V-15V	21V-24V
Battery High voltage range selectable	12V-16V	25V-30V
Works without Battery	YES	
SOLAR CHARGER		
Maximum PV Array Power	2000W	3000W
MPPT Range @ Operating Voltage	60-430 VDC	
Maximum PV Array Open Circuit Voltage	450 VDC	
Municipal electricity	80 A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	128*300*440	
Net Weight (kgs)	6.9	8.5
Communication interface	USB/RS232/RS485/WIFI(Optional)	
LCD display	General LCD	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	
Waterproof grade	IP20	

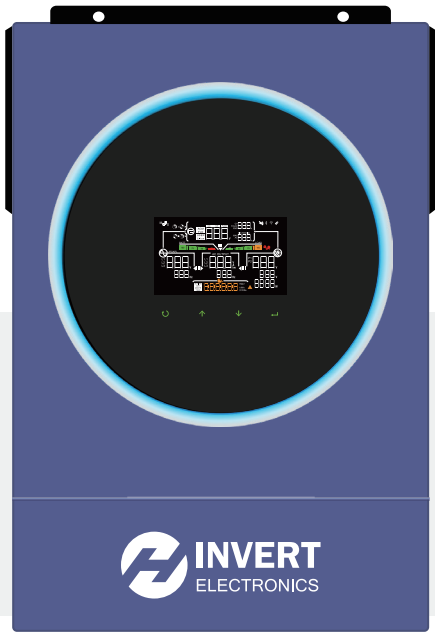
Product specifications are subject to change without further notice.

HMK PLUS HYBRID INVERTER

HMK PLUS 3.6KW-6KW(24V-48V)

Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Built-in communication port for BMS.
- Configurable AC/Solar input priority via LCD setting.



Built-in
Wifi(Optional)



Built-in
BMS



Net Metering
Feed into Grid



Status Indication
RGB LED Light



LCD Display &
Function Buttons



Pure Sine
Wave

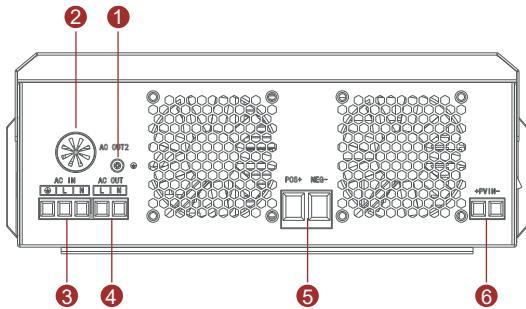


Overload
Protection



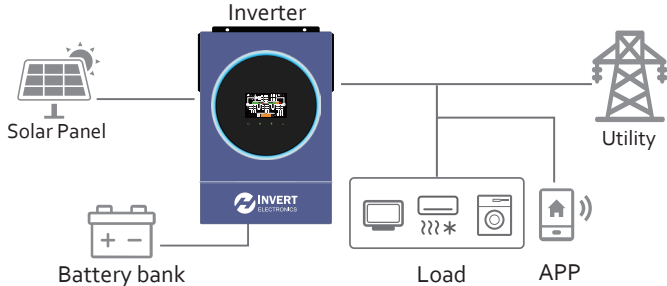
Short Circuit
Protection

Conneation ports

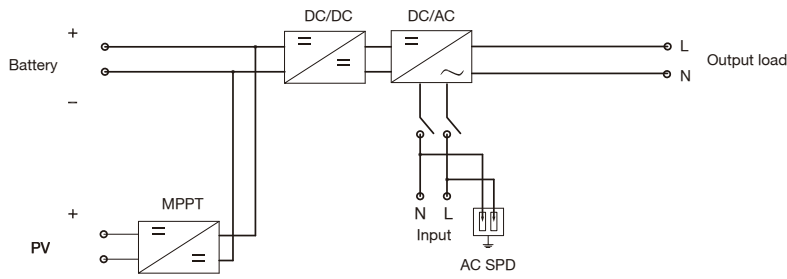


1. GND
2. AC OUT 2(Optional)
3. AC input
4. AC output
5. Battery
6. Solar/PV

Solar system connection



Schematic diagram



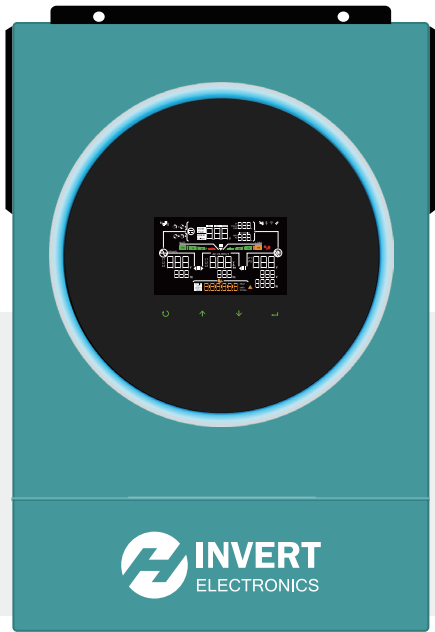
DATASHEET	3.6KW	6KW
RATED POWER	3600W	6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
MPPT Tracker Number	1	
Maximum input current of PV	27 A	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%	
Surge Power	7200VA	12000VA
Efficiency (Peak) PV to INV	97%	
Efficiency (Peak) Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Output Port	Dual output(Optional)	
Waveform	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	61 VDC
Maximum Charge Current	80 A(From grid)	100 A(From grid)
SOC display	Shows battery State of charge in percentage and in voltage as well	
Sleeping Mode	YES	
Battery voltage low cut off selectable	21V-24V	42V-49V
Battery High voltage range selectable	25V-30V	50V-60V
Works without Battery	YES	
SOLAR CHARGER		
Maximum PV Array Power	5000W	6500W
MPPT Range @ Operating Voltage	60-450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Municipal electricity	120 A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	128*300*440	
Net Weight (kgs)	8.7	9.45
Communication interface	USB/RS232/RS485/WIFI(Optional)	
LCD display	General LCD	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	
Waterproof grade	IP20	

HMK PLUS HYBRID INVERTER

HMK PLUS 6.2KW(48V)

Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Built-in communication port for BMS.
- Configurable AC/Solar input priority via LCD setting.



Built-in
Wifi(Optional)



Built-in
BMS



Net Metering
Feed into Grid



Status Indication
RGB LED Light



LCD Display &
Function Buttons



Pure Sine
Wave

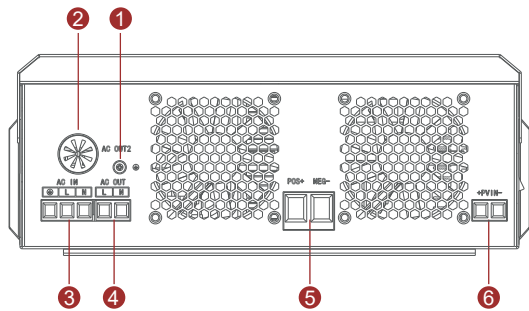


Overload
Protection



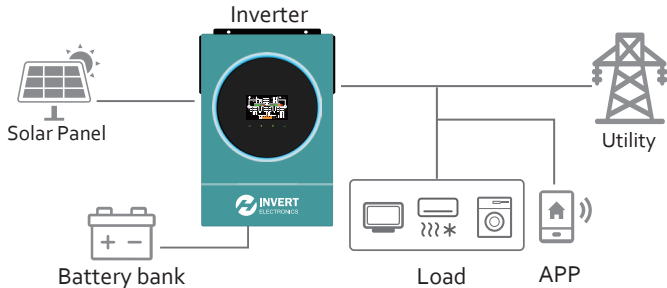
Short Circuit
Protection

Conneation ports

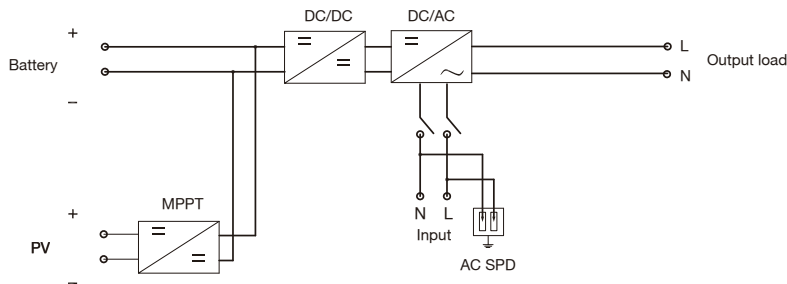


1. GND
2. AC OUT 2(Optional)
3. AC input
4. AC output
5. Battery
6. Solar/PV

Solar system connection



Schematic diagram



DATASHEET	6.2KW
RATED POWER	6200W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
MPPT Tracker Number	1
Maximum input current of PV	27 A
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%
Surge Power	12400VA
Efficiency (Peak) PV to INV	97%
Efficiency (Peak) Battery to INV	94%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Output Port	Dual output(Optional)
Waveform	Pure sine wave
BATTERY & AC CHARGER	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	61 VDC
Maximum Charge Current	100 A(From grid)
SOC display	Shows battery State of charge in percentage and in voltage as well
Sleeping Mode	YES
Battery voltage low cut off selectable	42V-49V
Battery High voltage range selectable	50V-60V
Works without Battery	YES
SOLAR CHARGER	
Maximum PV Array Power	6500W
MPPT Range @ Operating Voltage	60-450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Municipal electricity	120 A
Maximum Efficiency	98%
PHYSICAL	
Dimension, D x W x H (mm)	128*300*440
Net Weight (kgs)	10.6
Communication interface	USB/RS232/RS485/WIFI(Optional)
LCD display	General LCD
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C - 55°C
Storage Temperature	-15°C - 60°C
Waterproof grade	IP20

Product specifications are subject to change without further notice.

HMK PLUS HYBRID INVERTER

HMK-(8KW-12KW)-1P

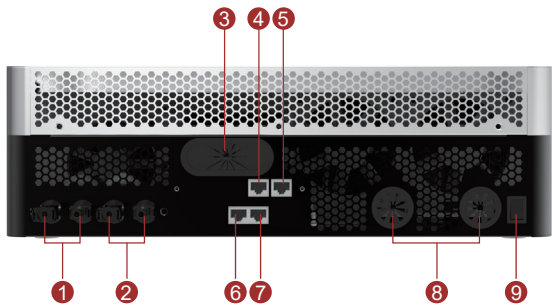
Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Built-in communication port for BMS.
- Configurable AC/Solar input priority via LCD setting.



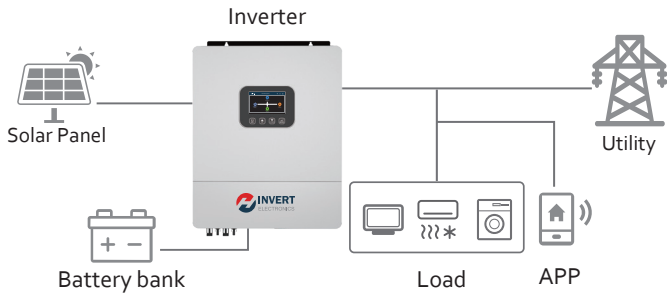
- 
Built-in Wifi(Optional)
- 
Built-in BMS
- 
Net Metering Feed into Grid
- 
Status Indication RGB LED Light
- 
LCD Display & Function Buttons
- 
Pure Sine Wave
- 
Overload Protection
- 
Short Circuit Protection

Conneation ports

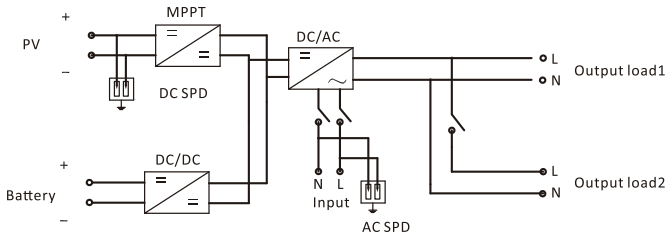


- PV1
- PV2
- Input and output
- PAR. CANA
- PAR. CANB
- COM
- BMS
- BAT
- Switch

Solar system connection



Schematic diagram



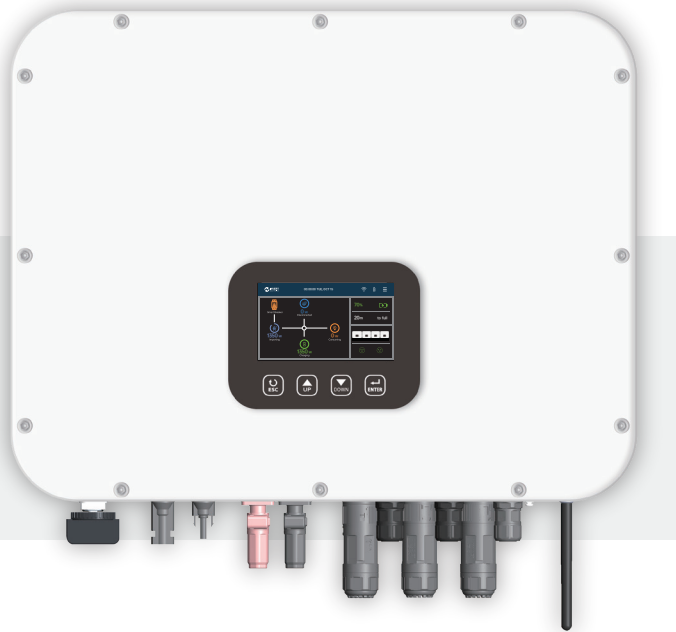
DATASHEET	8KW	12KW
RATED POWER	8000W	12000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
MPPT Tracker Number	2	
Maximum input current of PV	27 A*2(Max 40A)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	16000VA	24000VA
Efficiency (Peak) PV to INV	97%	
Efficiency (Peak) Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Output Port	Dual output(Optional)	
Waveform	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	61 VDC	
Maximum Charge Current	160 A(From grid)	
SOC display	Shows battery State of charge in percentage and in voltage as well	
Sleeping Mode	YES	
Battery voltage low cut off selectable	42V-49V	
Battery High voltage range selectable	50V-60V	
Works without Battery	YES	
SOLAR CHARGER		
Maximum PV Array Power	10000W	13000W
MPPT Range @ Operating Voltage	60-450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Municipal electricity	160 A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	540*440*130	
Net Weight (kgs)	16.5	19
Communication interface	USB/RS232/RS485/WIFI(Optional)	
LCD display	General LCD	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	
Waterproof grade	IP20	

HMK PLUS HYBRID INVERTER

HMK-(6KW/8KW/10KW/12KW)-3P

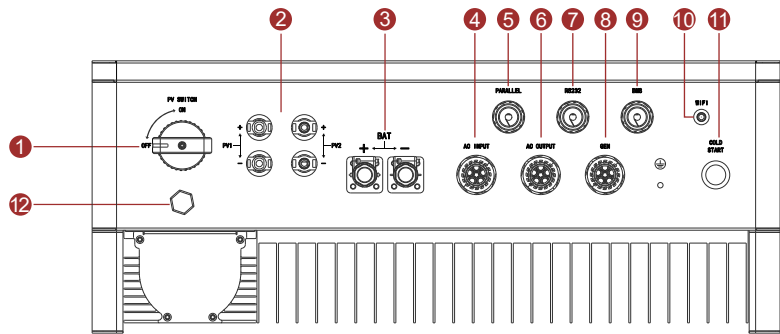
Product Features

- 100% unbalanced output.
- Support storing energy from diesel generator.
- 48V low voltage battery, transformer isolation design.
- AC couple to retrofit existing solar system.
- Support three-phase and single-phase rated power output.

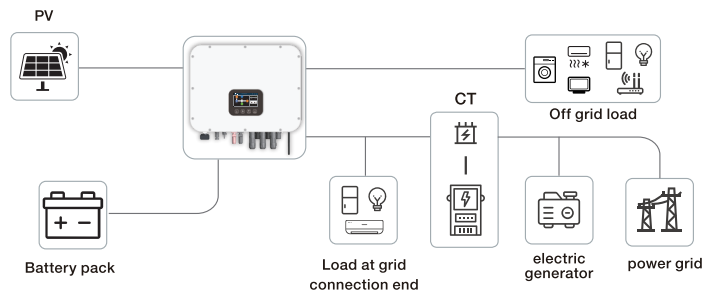


Conneation ports

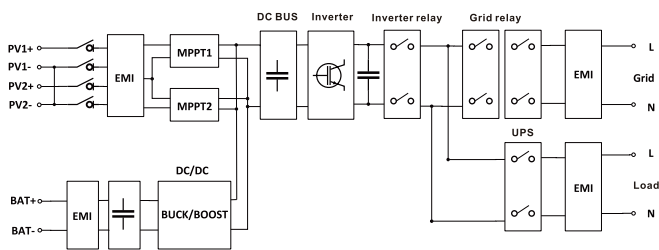
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|------------------|----------------|
| 1. PV Switch | 7. RS232 port |
| 2. PV1/PV2 port | 8. GEN |
| 3. Battery port | 9. BMS port |
| 4. AC Input | 10. WIFI |
| 5. Parallel port | 11. Cold Start |
| 6. AC Output | 12. Vent valve |



Solar system connection



Schematic diagram



Model name	HMK-6KW-3P	HMK-8KW-3P	HMK-10KW-3P	HMK-12KW-3P
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40~60			
Max. Battery Charge/Discharge Current (A)	120/125	140/175	160/220	200/250
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV Access Power (W)	12000	16000	20000	24000
Max. PV Input Power (kW)	15			
Max. PV Input Voltage (V)	800			
Start-up Voltage (V)	160			
MPPT Voltage Range (V)	180~950			
Rated PV Input Voltage (V)	550			
Max. Operating PV Input Current (A)	13+13		26+13	
Max. Input Short-Circuit Current (A)	17+17		34+17	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1		2/2+1	
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	6000	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	6600	8800	11000	13200
Rated AC Input/Output Current (A)	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4
Max. AC Input/Output Current (A)	10/9.6	13.4/12.8	16.7/15.9	20/19.1
Max. Continuous AC Passthrough (grid to load) (A)	45			
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8ind-0.8cap			
Rated Input/Output Voltage/Range (V)	220/380V,230/400V 0.85Un~1.1Un			
Rated Grid Frequency (Hz)	50/60			
Grid Connection Form	3L+N+PE			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency	97.6%			
Max. Efficiency				
Euro Efficiency	97.0%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
Communication Interface	RS485			
Monitor Mode	WIFI			
General Data				
Operating Temperature Range (°C)	-25~60°C (>45°C Derating)			
Permissible Ambient Humidity	0~100%			
Permissible Altitude	2000M			
Noise (dB)	≤55			
IP rating	IP65			
Inverter Topology	Non-Isolated			
Product Dimension, W x Dx H (mm)	535*420*210			
Weight (kg)	36			
Cooling	Natural cooling			
Warranty	5 years			
Safety/EMC Standard	Safety: IEC62109-1, IEC62109-2, EMC: IEC61000-6-1, IEC61000-6-3			

Product specifications are subject to change without further notice.

HMK PLUS ALL IN ONE

HMK PLUS 3KW-4KWH

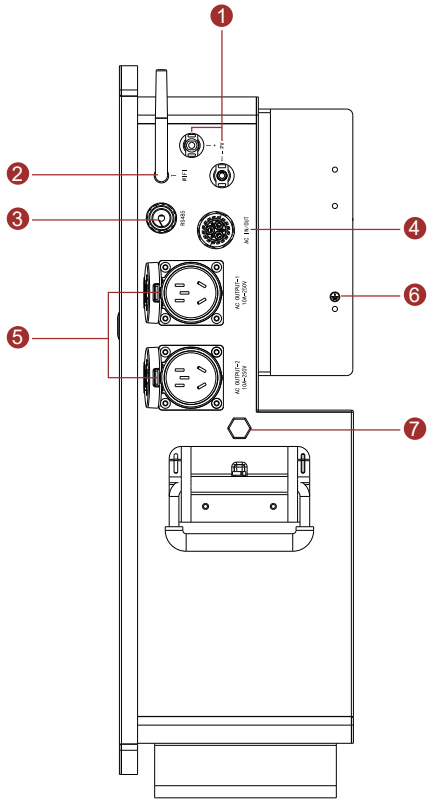
Product Features

- Support high Power Module with 27A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Support parallel system at maximum 30kw inverter & 40kwh capacity.
- Configurable AC/Solar input priority via LCD setting.



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Conneation ports



1.

PV
2.

WIFI
3.

RS485
4.

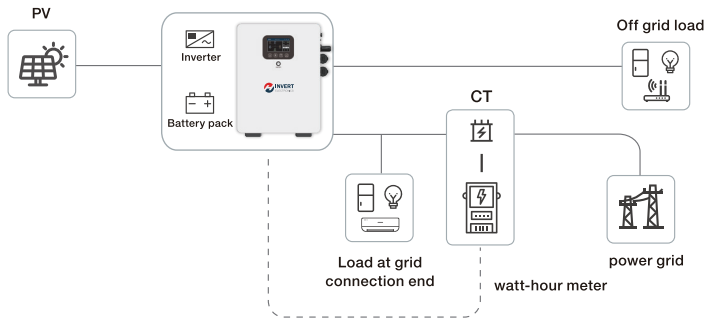
AC input/output
5.

AC output1/AC output2
6.

GND
7.

Vent valve

Solar system connection



MODEL NAME	HMK PLUS 4000W
Grid-connected power	3000W
OFF-GRID Input/Output	3000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
MPPT Tracker Number	1
Maximum input current of PV	27 A
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	6000VA
Efficiency (Peak) PV to INV	97%
Efficiency (Peak) Battery to INV	94%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform	Pure sine wave
SOLAR CHARGER	
Maximum PV Array Power	4000W
MPPT Range @ Operating Voltage	60-450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Municipal electricity	80 A
Maximum Efficiency	98%
PHYSICAL	
Communication interface	USB/RS232/RS485/WIFI(Optional)
LCD display	General LCD
Warranty	5 years
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-20℃ - 55℃
Storage Temperature	-15℃ - 60℃
Waterproof grade	IP65
BATTERY MODEL	
Capacity	4000Wh
PARAMETERS	
Lifep04	6000 Battery Cycles
Nominal Voltage	12 VDC
Typical Capacity	330Ah
Rated Discharging Current	120A
PHYSICAL	
Dimension, Dx Wx H (mm)	460*249*254
Net Weight	≈45kg

Product specifications are subject to change without further notice.

HMK PLUS PV INVERTER

HMK-(4KW-6KW)-1P

Product Features

- Support high Power Module with 40A(For 6KW) PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Configurable AC/Solar input priority via LCD setting.



Built-in
Wifi(Optional)



Net Metering
Feed into Grid



Status Indication
RGB LED Light



LCD Display &
Function Buttons



Pure Sine
Wave

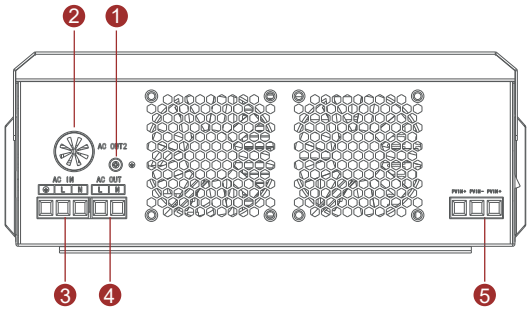


Overload
Protection



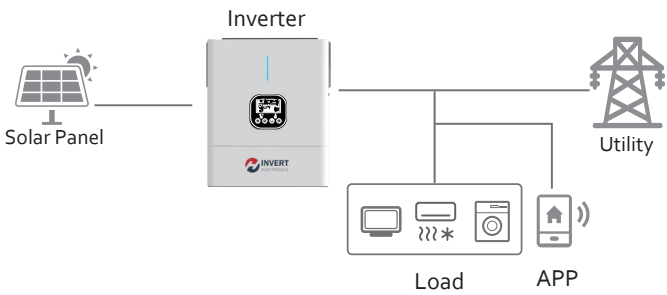
Short Circuit
Protection

Conneation ports

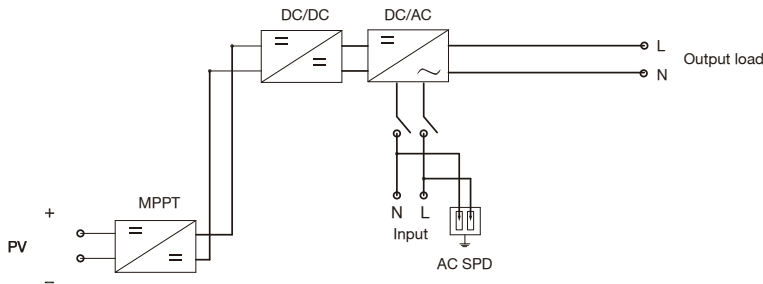


1. GND
2. AC OUT 2(Optional)
3. AC input
4. AC output
5. Solar/PV

Solar system connection



Schematic diagram



DATASHEET	4KW	6KW
RATED POWER	4000W	6000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
MPPT Tracker Number	1	2
Maximum input current of PV	27A	27 A*2(Max 40A)
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	8000VA	12000VA
Efficiency (Peak) PV to INV	97%	
Efficiency (Peak) Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Output Port	Dual output(Optional)	
Waveform	Pure sine wave	
SOLAR CHARGER		
Maximum PV Array Power	6500W	9000W
MPPT Range @ Operating Voltage	60-450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Grid Feeding	4KW	6KW
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	128*300*440	
Weight (Kg)	5	6
Communication interface	USB/RS232/RS485/WIFI(Optional)	
LCD display	General LCD	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	
Waterproof grade	IP20	

Product specifications are subject to change without further notice.

HMK PLUS PV INVERTER

HMK-(8KW-12KW)-1P

Product Features

- Support high Power Module with 40A PV Input Current.
- Dual output for smart load management.
- Remote Configuration & upgrade.
- Configurable AC/Solar input priority via LCD setting.



Built-in
Wifi(Optional)



Net Metering
Feed into Grid



Status Indication
RGB LED Light



LCD Display &
Function Buttons



Pure Sine
Wave

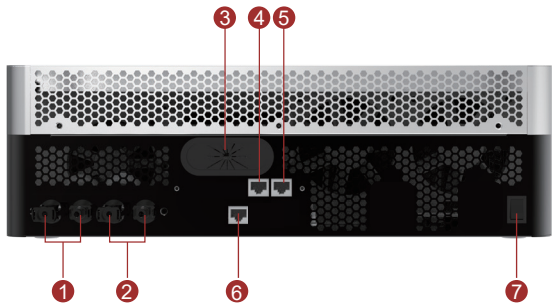


Overload
Protection



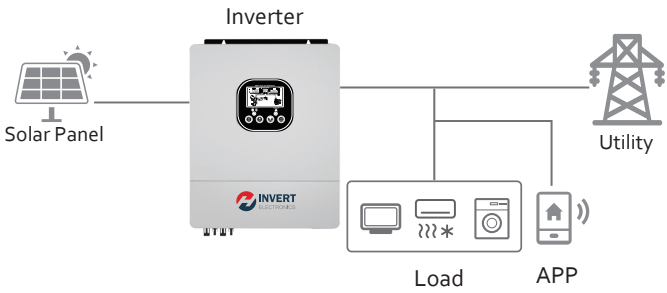
Short Circuit
Protection

Conneation ports

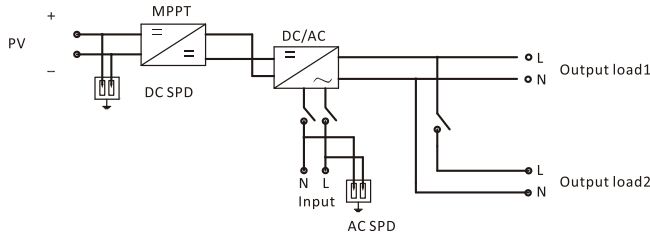


1. PV1
2. PV2
3. Input and output
4. PAR. CANA
5. PAR. CANB
6. COM
7. Switch

Solar system connection



Schematic diagram



DATASHEET	8KW	10KW	12KW
RATED POWER	8000W	10000W	12000W
INPUT			
Voltage	230 VAC		
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)		
MPPT Tracker Number	2		
Maximum input current of PV	27A*2(Max 40A)		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%		
Surge Power	16000VA	20000VA	24000VA
Efficiency (Peak) PV to INV	97%		
Efficiency (Peak) Battery to INV	94%		
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)		
Output Port	Dual output(Optional)		
Waveform	Pure sine wave		
SOLAR CHARGER			
Maximum PV Array Power	10000W	12000W	13000W
MPPT Range @ Operating Voltage	60-450 VDC		
Maximum PV Array Open Circuit Voltage	500 VDC		
Grid Feeding	8KW	10KW	12KW
Maximum Efficiency	98%		
PHYSICAL			
Dimension, D x W x H (mm)	540*440*440		
Weight (Kg)	8	9	10
Communication interface	USB/RS232/RS485/WIFI(Optional)		
LCD display	General LCD		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	0°C - 55°C		
Storage Temperature	-15°C - 60°C		
Waterproof grade	IP20		

Product specifications are subject to change without further notice.

Home Storage System

5-15kWh

Product Features

- High (System) Energy Density
- Multiple Protection Features
- Flexible, Reliable, and Scalable
- Easy Installation and Maintenance



Long Cycle Life of
6000+ cycles



High Energy
Density



Seamless
Compatibility



Scalable to
5 units in parallel

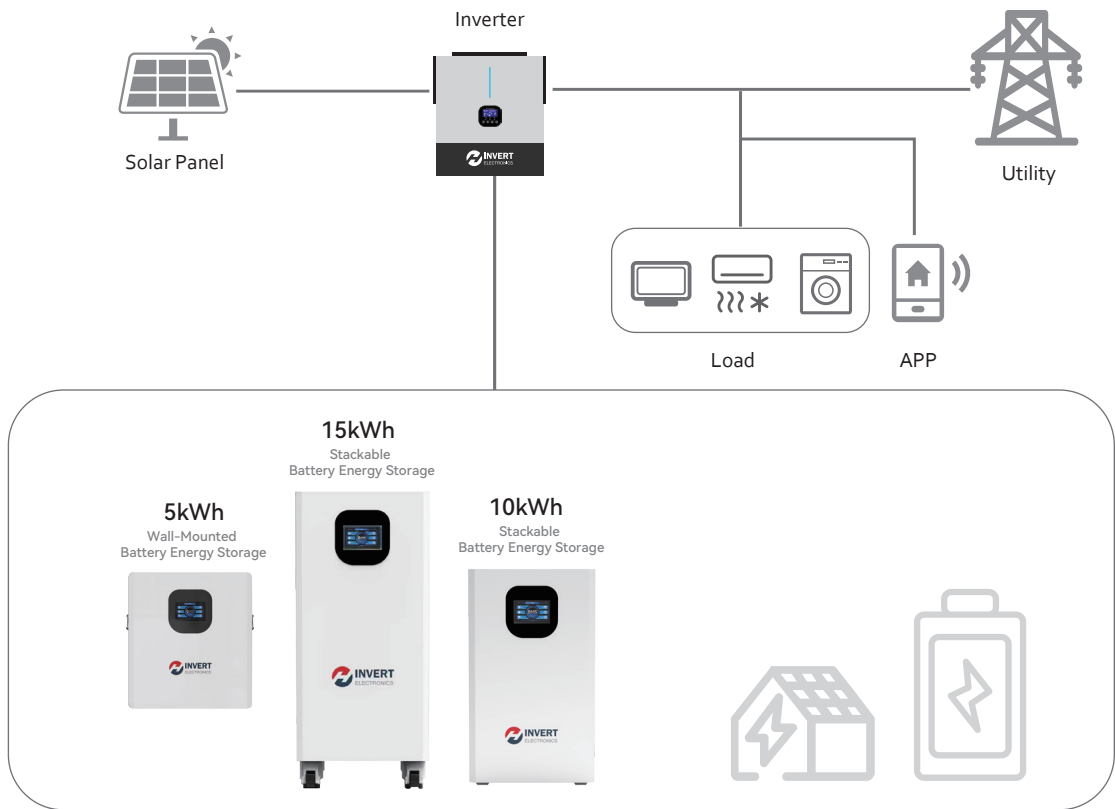


BMS Charge/
Discharge Protection



Easy Installation
and Maintenance

Solar system connection



DATASHEET	5kWh	10kWh	15kWh
Battery Chemistry	LiFePO ₄ (LFP)	LiFePO ₄ (LFP)	LiFePO ₄ (LFP)
Cell Nominal Voltage	3.2V	3.2V	3.2V
Cell Nominal Capacity	100A	200A	300A
Cell Configuration	16S1P	16S1P	16S1P
Nominal voltage	51.2V	51.2V	51.2V
Rated capacity	100A	200A	300A
Charging current	50A	50A	60A
Discharge current	100A	100A	200A
Dimension, D x W x H (mm)	580*400*160	770*500*160	892*390*256.5
Net Weight (Kg)	42	86	130
Cycle Life	6,000 cycles (at 25°C, 0.5C rate, 90% DoD, to 70% EOL)		
Communication Interface	RS485/CAN/RS232		
Standard Features	General LCD		
Balancing Method	Passive Balancing		
Cooling Method	Natural Convection		
Protection / Alarm	Over-charge /Over-discharge/Over-current/Over-temperature		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	0°C - 55°C		
Storage Temperature	-15°C - 60°C		
Waterproof grade	IP65		

Product specifications are subject to change without further notice.