EESAVE VENTURES

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It’s great to save the planet
It’s greater to save money

RoHS compliant

9 years history

6000 m3 factory

Fast production fast delivery

Expert customization

More energy saving

24 hours online service

About Us

Our Partner is a leading global provider of solar energy system products, specializing in R &D and producing off-grid solar power system , solar controllers, solar power inverters and batteries, solar panels, etc. As a professional manufacturer of solar energy power systems established in 2013, we has got ISO9001 and ISO14001 approved, with 6000 square meters plant, 5 production lines, advanced produce and test equipment, the best quality products and perfect services always be offered to the customers. With solar power system supporting products continuing to be widely used in families and countries all over the world, we sincerely feel honored that the solar system we designed and produced are very appreciated by the market as well as applied widely in every field. We are committed to regarding customers' real requirements as our deep research and development direction all the way. This is what inspires us to be original, creative and completely dedicated to our vision and to our customers.

What we can do?

1. Professional pre-sales engineering team solution support, OEM & ODM customized services.

2. High-quality control, 90% of our products are self-developed and manufactured. All products we offer users the most popular and high-quality brand materials in the world with strict quality control.

3. Perfect after-sale service, detailed installation drawing and video, and user manual will be offered. 24hrs after-sale engineer service.

Service | Quality | Experience

Our Advantages

Our complete solar energy systems are perfect for the contractor competing for a bid or the homeowner avoiding the exorbitant costs of a solar system installation company. The sales engineers on our sta ffhave many years of experience and can design any complete solar system for residential or commercial applications. Our remote industrial solar systems are designed to reliably power our clients critical loads in remote locations.

Our residential systems ship complete with solar panels, inverter, solar panel mounting, interconnect cables, AC and DC disconnects. Any other options you may need are available at low wholesale prices. Site specific one and three line electrical schematics are included with every system and denote all wiring sizing and type and all recommended breakers, disconnects and components. They will more than likely be all you need to obtain your installation permit for your area if one is required.

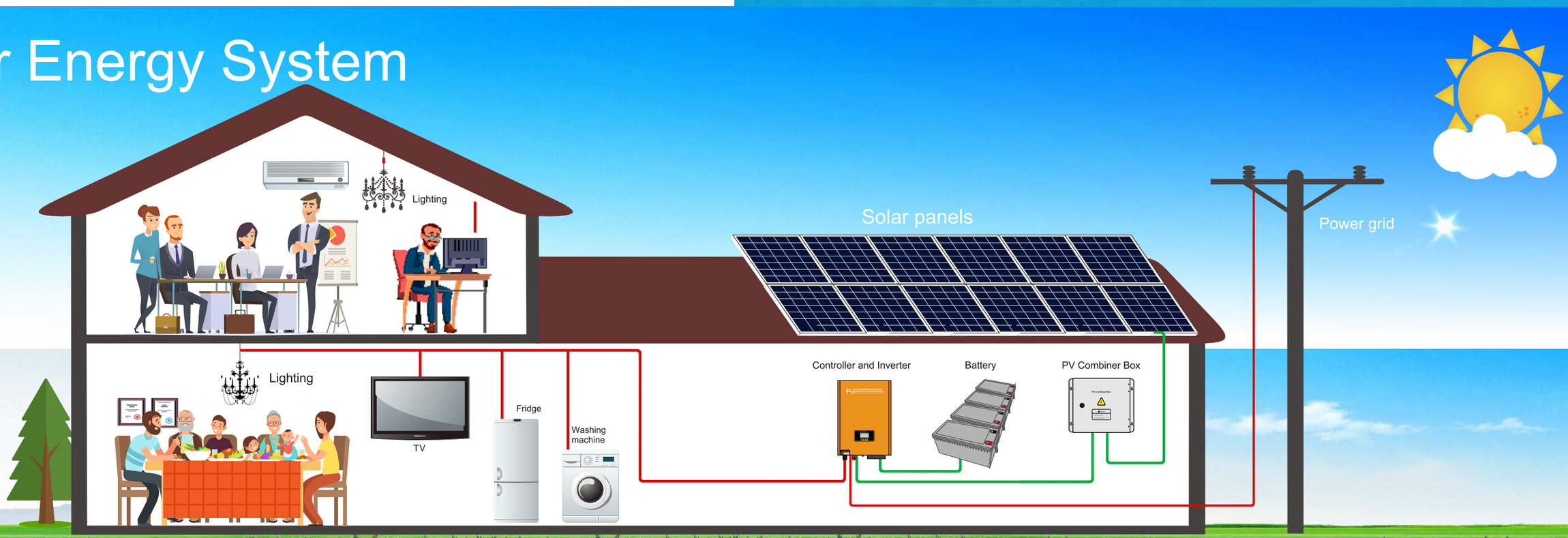
We pride ourselves on providing the best custom electrical engineering drawings, system design and installation technical support in the industry. Whether you're an experienced installer, electrical contractor or the do-it yourself homeowner. We will be here to support you every step of the way throughout the design, permitting and installation process.

System consultation and planning

Rapid turnaround on quotes

Installation support

Superior support and service



Project

10KW Solar System in Dominica

Solar Panel: 400W 24pcs
Inverter: 10KW / 96VDC
Battery: 200AH /16pcs

5KW Solar System in Indonesia

Solar Panel: 400W 12pcs
Inverter: 5KW / 96VDC
Battery: 200AH /8pcs

8KW Solar System in St. Maarten

Solar Panel: 400W 20pcs
Inverter: 8KW / 96VDC
Battery: 150AH /16pcs

20KW Solar System in Thailand

Solar Panel: 400W 48pcs
Inverter: 20KW / 196VDC
Battery: 150AH / 32 pcs

10KW Solar System in Cameron

Solar Panel: 400W 24pcs
Inverter: 10KW / 96VDC
Battery: 200AH /16pcs

Content

Energy Saving

Easy Installation

High Efficiency

Full Protection

Safe

Easy

Advantages of our Solar Power System DIY Kit

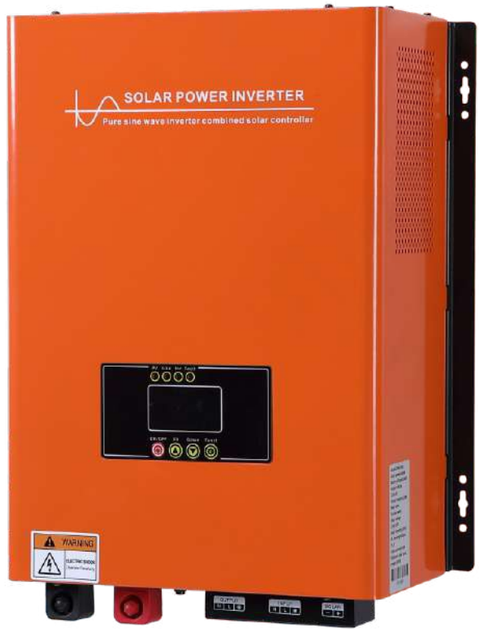
The components in our pre-designed kits have been carefully selected for quality and compatibility based on our decades of experience in solar power and storage. Depending on your system type, you can maintain power in your house during grid outages and power your home with complete independence from the grid.

Solar panels are long-lasting (25+ years) and require little to no maintenance, and the size is small enough for easy DIY.

Using power from your solar panels is clean, renewable, and free! And the sense of accomplishment from installing your own solar power system is unrivaled.

Low Frequency Inverter

(build-in controller)



Build-in MPPT

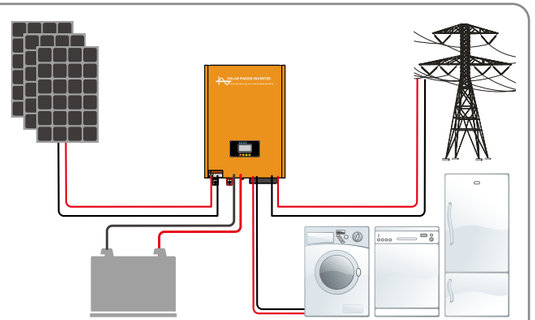
Pure Sine Wave

1 phase
Single Phase

100%
Full Protection

Safe

Easy



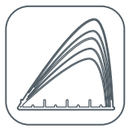
- This compact inverter is ideal for residential and small-scale commercial applications. With power categories from 0.5kw to 6kw and built-in MPPT controller, It can operate efficiently at a maximum input voltage for increasing efficiency and additional
- Pure sine wave
- MPP tracking
- Metal case design to enhance heat dissipation and prevent rust corrosion, prolong life time
- Gel battery and LiFePO4 battery can be configured flexibly

Technical Specification

Technical Specification	HIM0K5E	HIM1K0E	HIM1K5E	HIM2K0E	HIM3K0E	HIM4K0E	HIM5K0E	HIM6K0E
	AC INPUT							
Input Voltage Range	85~138VAC / 170~275VAC							
Frequency Range	50/60Hz							
Max Bypass Overload Current	30A	30A	30A	30A	30A	30A	30A	30A
AC Reverse Protection	Available							
	OUTPUT							
Rated Power	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W
Peak Power	1000W	2000W	3000W	4000W	6000W	8000W	10000W	12000W
Wave Form	Pure Sine Wave							
Efficiency	>85%							
Output Voltage	110/VAC/ 240VAC							
Output Frequency	50/60Hz (+/-0.5Hz)							
Transfer Time	8ms							
	PV CHARGING							
Voltage Range	12Vdc/24Vdc		24Vdc/48Vdc			48Vdc/96Vdc		
MPPT Voltage Range	12V:(15~150Vdc) / 24V:(30~150Vdc) / 48V:(60~150Vdc) / 96V:(130~180Vdc)							
Max Output Power	12Vdc 30A(400w) 24Vdc 30A(800w)		24Vdc 60A(1600w) 48Vdc 60A(3200w)			48Vdc 60A(3200w) 96Vdc 60A(6400w)		
Charging Current Range	0-30A		0-60A					
Battery Type	Gel / LiFePO4							
Battery Voltage Range	12Vdc/24Vdc		24Vdc/48Vdc			48Vdc/96Vdc		
	PROTECTION							
Output Short Circuit	AC mode: Jump fuse, Inverter mode: Shut down							
Overload	If overload 105%, Inverter will alarm.If overload 130%, Inverter will shut down in 10s Once the inverter is off, It must be turned on manually							
High AC Voltage	Turn off AC,Turn to Inverter mode automatically							
Low DC Voltage	Inverter shut down automatically, Once the AC recover, Inverter turn on and charge automatically							
Over Temperature	Inverter will alarm and turn off output but it will recover to normal state after cooling down							
	DISPLAY							
Content	Input/Output Voltage, Battery Voltage, Battery Capacity, Load Capacity, Working mode, Frequency, PV status and specifcation, PV Cumulative power generation							
	GENERAL DATA							
Humidity	15~95%							
Operating Temperature	-10~40ºC							
Ambient Temperature	-15~60ºC							
Altitude	<3000m							
Degree of Protection	IP21							
Cooling Method	Intelligent redundant fan cooling							
Noise [dBA]	<30 dBA							
Fixing System	Wall mount lugs							
Net Weight / Gross	12kg / 14kg	14kg / 16kg	15.6kg/17.6kg	16.3kg/18.7kg	18.6kg/21.5kg	25.1kg/27.2kg	27.5kg/30.5kg	29.5kg/32.5kg
Dimensions	420 x 313 x 117mm		486 x 361 x 175mm			553 x 411 x 175mm		
Package Size	505 x 374 x 178mm		571 x 422 x 236mm			641 x 470 x 236mm		

High Frequency Inverter

(build-in controller)


Build-in MPPT


Pure Sine Wave


Expansion in parallel

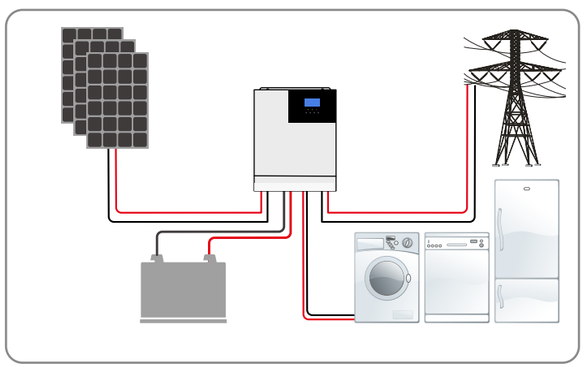
Three Phase


High Efficiency

Full Protection


Safe


Easy



- High frequency pure sine wave
- Build-in MPPT controller
- High expansion to 30KW in parallel mode
- Support single phase, split phase, 3-phase
- Small, light, and easy to install
- Available in 4 charging modes: only solar, mains priority, Solar priority and solar&mains hybrid charging
- Metal case design to enhance heat dissipation and prevent rust corrosion, prolong life time
- Save surplus electricity, increase self-use rate of PV generation
- Gel battery and LiFePO4 battery can be configured flexibly
- Supply of variety of communication functions such as Rs485, GPRS, WIFI. Bluetooth, CAN, USB, etc.

Technical Specification

Technical Specification	HIA0K2E24	HIA0K3E24	HIA0K3E48	HIA0K5E48
	AC INPUT			
Input Voltage Range	90~280Vac			
Frequency Range	50/60Hz			
Max Bypass Overload Current	30A	30A	40A	40A
AC Reverse Protection	Available			
	OUTPUT			
Rated Power	2000W	3000W	3000W	5000W
Peak Power	4000W	6000W	6000W	10000W
Wave Form	Pure Sine Wave			
Efficiency	>95%			
Output Voltage	230Vac			
Output Frequency	50/60Hz (+/-0.5Hz)			
Transfer Time	10ms			
	PV CHARGING			
Voltage Range	30~100Vdc		60~145Vdc	
MPPT Voltage Range	30~85Vdc		60~115Vdc	
Max Output Power	1400W		4200W	
Charging Current Range	0-60A		0-80A	
Wiring Protection	Reverse Polarity Protection			
Battery Type	Gel / LiFePO4			
Battery Voltage Range	18~33Vdc		40~60Vdc	
	PROTECTION			
Output Short Circuit	AC mode: Jump fuse, Inverter mode: Shut down			
Overload	If overload 105%, Inverter will alarm.If overload 130%, Inverter will shut down in 10s Once the inverter is off, It must be turned on manually			
High AC Voltage	Turn off AC,Turn to Inverter mode automatically			
Low DC Voltage	Inverter shut down automatically, Once the AC recover, Inverter turn on and charge automatically			
Over Temperature	Inverter will alarm and turn off output but it will recover to normal state after cooling down			
	DISPLAY			
Content	Input/Output Voltage, Battery Voltage, Battery Capacity, Load Capacity, Working mode, Frequency, PV			
	GENERAL DATA			
Humidity	15~95%			
Operating Temperature	-15~55℃			
Ambient Temperature	-25~60℃			
Altitude	<3000m			
Degree of Protection	IP21			
Cooling Method	Intelligent redundant fan cooling			
Noise [dBA]	<60 dBA			
Fixing System	Wall mount lugs			
Net Weight / Gross	6.2kg / 7.8kg		10.8kg / 11.8kg	
Dimensions	378*280*103mm		426*322*124mm	
Package Size	440*350*176mm		498*410*201mm	

Low Frequency Inverter Single Phase

Build-in MPPT

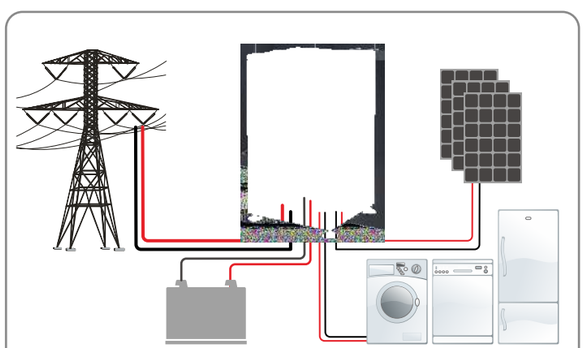
Pure Sine Wave

1 phase
Single Phase

100%
Full Protection

Safe

Easy



- Pure sine wave
- Build-in MPPT controller
- Easy to use
- Single phase
- Efficient IGBT (Insulated Gate Bipolar Transistor) inversion technology has a lower saturation voltage drop and higher operation efficiency and reliability
- Metal case design to enhance heat dissipation and prevent rust corrosion, prolong life time
- Save surplus electricity, increase self-use rate of PV generation
- Gel battery and LiFePO4 battery can be configured flexible

Technical Specification	HIK8K0E96	HIK8K0E192	HIK10KE96	HIK10KE192	HIK15KE192	HIK20KE192
	AC INPUT					
Input Voltage Range	110Vac/220Vac					
Frequency Range	50/60Hz					
	OUTPUT					
Rated Power	8000W	8000W	10000W	10000W	15000W	20000W
Peak Power	16000W	16000W	20000W	20000W	30000W	40000W
Wave Form	Pure Sine Wave					
Efficiency	>90%					
Output Voltage	110Vac/220Vac					
Output Frequency	50/60Hz (+/-0.5Hz)					
Transfer Time	<30ms					
	PV CHARGING					
Voltage Range	115~230Vdc	220~430Vdc	115~230Vdc	220~430Vdc	220~430Vdc	220~430Vdc
Charging Current Range	50A (2 input channel)		100A (4 input channel)			
Wiring Protection	Reverse Polarity Protection					
Battery Type	Gel / LiFePO4					
Battery Voltage Range	96Vdc	192Vdc	96Vdc	192Vdc	192Vdc	192Vdc
	PROTECTION					
Output Short Circuit	AC mode: Jump fuse, Inverter mode: Shut down					
Overload	If overload 105%, Inverter will alarm.If overload 130%, Inverter will shut down in 10s Once the inverter is off, It must be turned on manually					
High AC Voltage	Turn off AC,Turn to Inverter mode automatically					
Low DC Voltage	Inverter shut down automatically, Once the AC recover, Inverter turn on and charge automatically					
Over Temperature	Inverter will alarm and turn off output but it will recover to normal state after cooling down					
	DISPLAY					
Content	Input/Output Voltage, Battery Voltage, Battery Capacity, Load Capacity, Working mode, Frequency, PV					
	GENERAL DATA					
Humidity	15~95%					
Operating Temperature	-15~40ºC					
Altitude	<3000m					
Degree of Protection	IP21					
Cooling Method	Intelligent redundant fan cooling					
Noise [dBA]	<60 dBA					
Weight	180kg	180kg	200kg	200kg	240kg	257kg
Dimensions	536*560*1015mm					
Package Size	675*700*1180mm					

Low Frequency Three Phase Inverter

Build-in MPPT

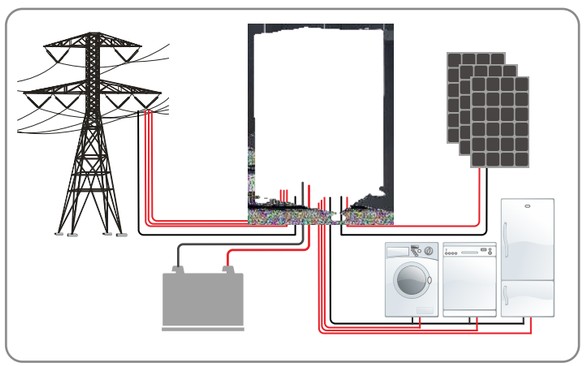
Pure Sine Wave

Three Phase

Full Protection

Safe

Easy



- Three Phase
- Pure sine wave
- Build-in MPPT controller
  DSP intelligent control technology high performance
- Efficient IGBT (Insulated Gate Bipolar Transistor) inversion technology has a lower saturation voltage drop and higher operation efficiency and reliability
- Metal case design to enhance heat dissipation and prevent rust corrosion, prolong life time
- Save surplus electricity, increase self-use rate of PV generation
- Gel battery and LiFePO4 battery can be configured flexible

Technical Specification	HIT10KE192	HIT15KE192	HIT20KE192	HIT25KE240	HIT30KE240
	AC INPUT				
Input Voltage Range	380Vac				
Phase	3-Phase				
Frequency Range	50/60Hz				
	OUTPUT				
Rated Power	10000W	15000W	20000W	25000W	30000W
Peak Power	20000W	30000W	40000W	50000W	60000W
Wave Form	Pure Sine Wave				
Efficiency	>90%				
Output Voltage	380Vac 3-phase				
Output Frequency	50/60Hz (+/-0.5Hz)				
Transfer Time	<3s				
	PV CHARGING				
Voltage Range	220~430Vdc			276~430Vdc	
Charging Current Range	100A (4 input channel)				
Wiring Protection	Reverse Polarity Protection				
Battery Type	Gel / LiFePO4				
Battery Voltage Range	192Vdc			240Vdc	
	PROTECTION				
Output Short Circuit	AC mode: Jump fuse, Inverter mode: Shut down				
Overload	If overload 105%, Inverter will alarm.If overload 130%, Inverter will shut down in 10s Once the inverter is off, It must be turned on manually				
High AC Voltage	Turn off AC,Turn to Inverter mode automatically				
Low DC Voltage	Inverter shut down automatically, Once the AC recover, Inverter turn on and charge automatically				
Over Temperature	Inverter will alarm and turn off output but it will recover to normal state after cooling down				
	DISPLAY				
Content	Input/Output Voltage, Battery Voltage, Battery Capacity, Load Capacity, Working mode, Frequency, PV				
	GENERAL DATA				
Humidity	15~95%				
Operating Temperature	-15~40ºC				
Altitude	<3000m				
Degree of Protection	IP21				
Cooling Method	Intelligent redundant fan cooling				
Noise [dBA]	<60 dBA				
Weight	220kg	240kg	262kg	319kg	365kg
Dimensions	635*566*1295mm				
Package Size	760*690*1540mm				

Solar Controller

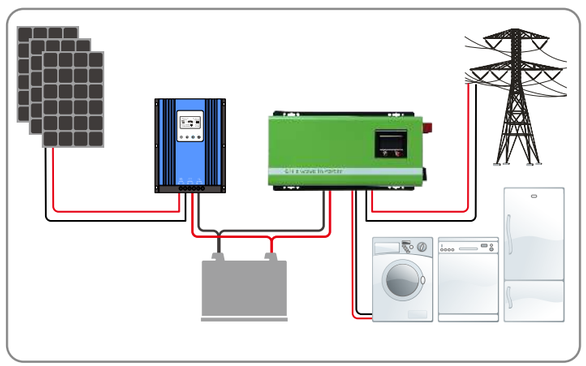
MPPT

High Efficiency

Full Protection

Safe

Easy



The MPPT Charge Controller utilizes Maximum Power Point Tracking technology to extract maximum power from the solar PV module(s). The tracking algorithm is fully automatic and does not require user adjustment. MPPT technology will track the array's maximum power point voltage (Vmp) as it varies with weather conditions, ensuring that the maximum power is harvested from the array throughout the course of the day.

This controller is suitable for off-grid solar applications. It protects the battery from being over-charged by the solar modules and over-discharged by the loads.

Technical Specification

Technical Specification		HCP030A	HCP040A	HCP050A	HCP060A	HCP050B	HCP060B	HCP080B	HCP100B
		TECHNICAL DATA							
Rated Charging Current		30A	40A	50A	60A	50A	60A	80A	100A
Charing Mode		Automatic maximum power point tracking							
Voltage Range		12V:18~150V / 24V:36~150V / 36V:48~150V / 48V:65~150V / 96V:130~180V							
Charging Method		Three stages: Constant current, balanced charging, floating charging							
Efficiency		>99.5%							
Battery Type		GEL Battery / Lithium							
Non-Loading Loss		<30mA							
Max PV Input Power	12V	420w	570w	700w	900w				
	24V	840w	1130w	1400w	1700w				
	36V	1230w	1700w	2100w	2550				
	48V	1650w	2270w	2800w	3400w	2650w	3150w	4250w	5300w
	96V					5300w	6400w	8500w	10600w
Low Voltage Protection	12V	16v							
	24V	30v							
	36V	45v							
	48V	60v				60v			
	96V					120v			
Over Voltage Protection	12V	150v							
	24V	150v							
	36V	150v							
	48V	150v				150v			
	96V					230v			
		LOADING							
Load Voltage		same as battery							
		DISPLAY							
Content		Input/Output Voltage, Battery Voltage, Battery Capacity, Load Capacity, Working mode, Frequency, PV							
		GENERAL DATA							
Humidity		15~95%							
Operating Temperature		-20~50ºC							
Ambient Temperature		-40~70ºC							
Altitude		<3000m							
Degree of Protection		IP21							
Cooling Method		Intelligent redundant fan cooling							
Noise [dBA]		<30 dBA							
Fixing System		Wall mount lugs							
Net Weight / Gross		1.8kg/2.1kg	1.8kg/2.1kg	2.5kg/3.0kg	2.5kg/3.0kg	2.5kg/3.0kg	2.5kg/3.0kg	5.8kg/6.5kg	5.8kg/6.5kg
Dimensions		203*197*92mm		250*197*92mm				322*242*117mm	
Package Size		256*203*130mm		340*238*155mm				322*242*117mm	

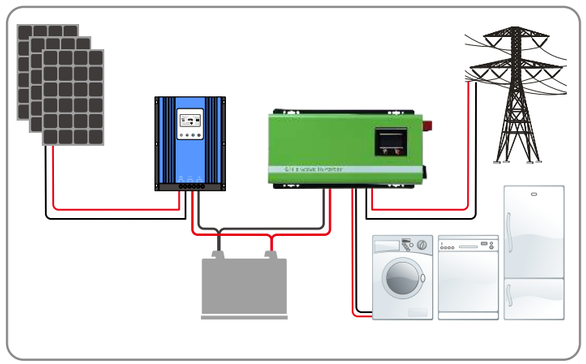
Low Frequency Inverter

Pure Sine Wave

Full Protection

Safe

Easy



This compact inverter is ideal for residential and small-scale commercial applications. With power categories from 0.5kw to 6kw, It can operate efficiently at a maximum input voltage for increasing efficiency and additional cost savings.

Technical Specification

Technical Specification	HIS0K5E	HIS1K0E	HIS1K5E	HIS2K0E	HIS3K0E	HIS4K0E	HIS5K0E	HIS6K0E
AC INPUT								
Input Voltage Range	85~138VAC / 170~275VAC							
Frequency Range	50/60Hz							
OUTPUT								
Rated Power	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W
Peak Power	1000W	2000W	3000W	4000W	6000W	8000W	10000W	12000W
Wave Form	Pure Sine Wave							
Efficiency	>85%							
Output Voltage	110/VAC/ 240VAC							
Output Frequency	50/60Hz (+/-0.5Hz)							
Transfer Time	8ms							
BATTERY								
Voltage Range	12Vdc/24Vdc		24Vdc/48Vdc			48Vdc/96Vdc		
Charging Current Range	0-30A Adjustable							
PROTECTION								
Output Short Circuit	AC mode: Jump fuse, Inverter mode: Shut down							
Overload	If overload 105%, Inverter will alarm.If overload 130%, Inverter will shut down in 10s Once the inverter is off, It must be turned on manually							
High AC Voltage	Turn off AC,Turn to Inverter mode automatically							
Low DC Voltage	Inverter shut down automatically, Once the AC recover, Inverter turn on and charge automatically							
Over Temperature	Inverter will alarm and turn off output but it will recover to normal state after cooling down							
DISPLAY								
Content	Input/Output Voltage, Battery Voltage, Battery Capacity, Load Capacity, Working mode, Frequency, PV status and specifcation, PV Cumulative power generation							
GENERAL DATA								
Humidity	15~95%							
Operating Temperature	-10~40ºC							
Ambient Temperature	-15~60ºC							
Altitude	<3000m							
Degree of Protection	IP21							
Cooling Method	Intelligent redundant fan cooling							
Noise [dBA]	<30 dBA							
Fixing System	Wall mount lugs							
Net Weight / Gross	12.8kg/10.8kg	15.6kg/13.6kg	17.6kg/15.6kg	18.5kg/16.3kg	20.1kg/18.3kg	23kg / 20kg	25kg/22.7kg	27.4kg/25.1kg
Dimensions	460 x 200 x 121mm		460 x 242 x 172mm			520 x 293 x 172mm		
Package Size	530 x 260 x 190mm		550 x 295 x 234mm			607 x 345 x 234mm		

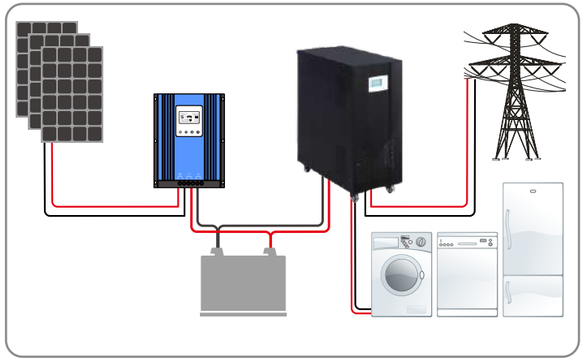
Low Frequency Inverter

Pure Sine Wave

Full Protection

Safe

Easy

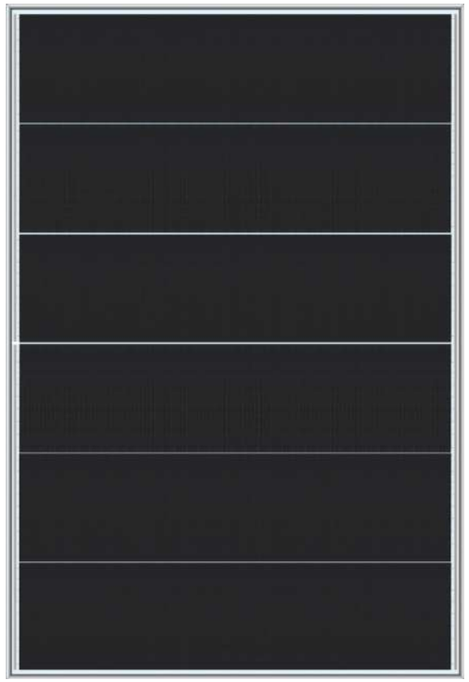


As an ideal Off-Grid inverter for households and industry, HIH series off-grid high power inverter is designed with advanced CPU and DSP. Thanks to the imported IGBT power module, it has long service life and reliable performance. With wide voltage, and pure sine wave output, it is a perfect and safe power source for home applications

Technical Specification

Technical Specification	HIH8K0E	HIH10KE	HIH12KE	HIH15KE	HIH20KE	HIH25KE	HIH30KE	HIH40KE
	AC INPUT							
Input Voltage Range	85~138VAC / 170~275VAC							
Frequency Range	50/60Hz							
	OUTPUT							
Rated Power	8KW	10KW	12KW	15KW	20KW	25W	30KW	40KW
Peak Power	16KW	20KW	24KW	30KW	40KW	50W	60KW	80KW
Wave Form	Pure Sine Wave							
Efficiency	>85%							
Output Voltage	110/VAC/ 230VAC							
Output Frequency	50/60Hz (+/-0.5Hz)							
Transfer Time	6ms							
	BATTERY							
Voltage Range	96V/192Vdc		192V/240Vdc					360Vdc
Charging Current Range	0-10A Adjustable							
	PROTECTION							
Output Short Circuit	AC mode: Jump fuse, Inverter mode: Shut down							
Overload	If overload 105%, Inverter will alarm.If overload 130%, Inverter will shut down in 10s Once the inverter is off, It must be turned on manually							
High AC Voltage	Turn off AC,Turn to Inverter mode automatically							
Low DC Voltage	Inverter shut down automatically, Once the AC recover, Inverter turn on and charge automatically							
Over Temperature	Inverter will alarm and turn off output but it will recover to normal state after cooling down							
	DISPLAY							
Content	Input/Output Voltage, Battery Voltage, Battery Capacity, Load Capacity, Working mode, Frequency, PVstatus and specifcation, PV Cumulative power generation							
	GENERAL DATA							
Humidity	15~95%							
Operating Temperature	-10~50ºC							
Ambient Temperature	-15~60ºC							
Altitude	<3000m							
Degree of Protection	IP21							
Cooling Method	Intelligent redundant fan cooling							
Noise [dBA]	<30 dBA							
Fixing System	Wall mount lugs							
Net Weight / Gross	69kg	72.5kg	81kg	85kg	108kg	130kg	143kg	161kg
Dimensions	580x290x675 mm				690x360x870 mm			
Package Size	650*360*830 mm				760*430*1020 mm			

Shingle Solar Panel



Shingle Technology

Low System Cost

Low Hot spot Risk

Low Shading Loss

Safe

Easy

Shingle solar cells are solar cells which are cut into typically 5 or 6 strips. These strips can be overlaid, like shingles on a roof, to form the electrical connections. The strips of solar cells are joined together using an electrically conductive adhesive (ECA) that allows for conductivity and flexibility. This allows the cells to be connected differently to conventional solar panels, in that, there are no busbars (ribbons) required and the solar cells can be joined together resulting in no gaps between the solar cells.

Technical Specification

Technical Specification	SP150ML	SP200ML	SP300ML	SP350ML	SP400ML
	Electrical Characteristics				
Maximum Power-Pm	150W	200W	300W	350W	400W
Voltage at Maximum Power Point-Vm	18.1V	18.1V	36.5V	31.9V	36.4V
Current at Maximum Power Point-Im	8.29A	11.05A	8.22A	10.97A	10.99A
Open Circuit Voltage-Voc	21.8V	21.8V	43.9V	38.4V	43.8V
Short Circuit Current-Isc	8.68A	11.57A	8.65A	11.49A	11.51A
	GENERAL DATA				
Front Glass	3.2mm toughened glass				
Cell	Monocrystalline PERC				
Frame	Aluminum				
Junction Box	IP68 2 diodes				
Cable	900mm, 4mm2, with MC4 connector				
Size	1120*670*30mm	1120*875*35mm	1310*1120*35mm	1730*990*35mm	1730*1120*35mm
Net Weight / Gross	7.88kg	10.30kg	13.30kg	18.00kg	20.30kg

PV Combiner Box

SPD

With Fuse

IP65
Waterproof

100%
Full Protection

Safe

Easy

Thanks to it’s compact dimensions, the combiner boxes can be installed quickly, safely and easily both indoors and outdoors, while their robust enclosure and advanced surge protection devices, fuse links and circuit breaker guarantee durability and reliable safety in the PV field.

Technical Specification

Technical Specification	HCA4N1P5	HCA6N1P5	HCA8N1P5	HCA10N1P5
	PV INPUT			
PV Array Input Numbers	4	6	8	10
MAX Circuit Voltage	DC500V			
MAX Single PV Array Current	15A			
Single PV Array Fuse	20A			
Single PV Array Wire Size	PG7 / 4mm2			
	OUTPUT			
Output Numbers	1/2	1/2	1/2	1/2
MAX Output Current	60A	90A	120A	150A
DC Output Circuit Breaker	Yes			
Surge Protection	Yes			
	GENERAL DATA			
Humidity	15~95%			
Operating Temperature	-30~60ºC			
Altitude	<3000m			
Material	Cold Rolled Steel			
Cooling Way	Natural cooling			
Ground Wire Size	>6mm2			
MC4 Connector	For option			
Degree of Protection	IP65			
Fixing System	Wall mount lugs			
Net Weight / Gross	7.5kg / 8.5kg	7.8kg / 8.8kg	9.5kg / 10.6kg	10.8kg / 12.9kg
Dimensions	406 x 360 x 145 mm		446 x 420 x 145 mm	
Package Size	470 x 435 x 250 mm		518 x 500 x 250 mm	

PV Combiner Box

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Technical Specification

Technical Specification	HCB4N1	HCB6N1
	PV INPUT	
PV Array Input Numbers	4	6
MAX Circuit Voltage	DC1000V	
MAX Single PV Array Current	15A	
Single PV Array Fuse	20A	
Single PV Array Wire Size	PG7 / 4mm2	
	OUTPUT	
Output Numbers	1	1
MAX Output Current	60A	90A
DC Output Circuit Breaker	Yes	
Surge Protection	Yes	
	GENERAL DATA	
Humidity	15~95%	
Operating Temperature	-30~60°C	
Altitude	<3000m	
Material	ABS	
Cooling Way	Natural cooling	
Ground Wire Size	>6mm2	
MC4 Connector	For option	
Degree of Protection	IP65	
Fixing System	Wall mount lugs	
Net Weight / Gross	7.5kg / 8.5kg	10.8kg / 12.9kg
Dimensions	406 x 360 x 145 mm	406 x 360 x 145 mm
Package Size	470 x 435 x 250 mm	470 x 435 x 250 mm

Energy storage LiFePO4 Battery

Cycle Life

Better
Managerment

Expansion
in parallel

Full
Protection

Safe

Easy

Solar energy is a fantastic way to get power anywhere the sun shines. It works great but only when the sun is out, so it’s critical to have the best battery possible for storing solar energy. LiFePO4 battery chemistry is one of the best options. It can lower utility bills, generate new revenues, and provide resilience with backup power. When paired with solar PV and other distributed energy resources, battery storage gives your business tremendous flexibility and control over managing energy use and costs.
The battery management systems is used to ensure the optimal use of the residual energy present, protect the batteries from deep discharge, from over-voltage, which are results of extreme fast charge and extreme high discharge current, and provides for cell balancing function, to manage that different battery cells have the same charging and discharging requirements.

Technical Specification

Technical Specification	HBM16S100	HBM16S150	HBM16S200
	BATTERY		
Battery Type	LiFePO4		
Voltage	51.2V 100Ah	51.2V 100Ah x 2	51.2V 100Ah x 4
Energy Capacity	5KWh	7.5KWh	10KWh
Charging Voltage	58.4V		
Charging Current	Max 100A		
Cycle Life	>6000times @80% DOD		
	DISPLAY		
Method	LCD+LED		
	GENERAL DATA		
Standard Charging Current(A)	20	30	40
Max.Continuous Charging Current (A)	100		
Max.Continuous Discharging Current (A)	100		
Humidity	15~95%		
Operating Temperature	Charging: 0~65ºC, Charging: -20~65ºC		
Ambient Temperature	-15~60ºC		
Altitude	<3000m		
Cooling Method	Intelligent redundant fan cooling		
Degree of Protection	IP21		
Communication Mode	RS485/CAN		
Net Weight / Gross	85kg / 66.5kg	115.5kg/94kg	135.5kg/111.5kg
Dimensions	500*142*745mm	535*211*775mm	535*211*775mm
Package Size	856*626*343mm	870*710*415mm	870*710*415mm

Energy storage LiFePO4 Battery

Cycle Life

Better
Managerment

Expansion
in parallel

Full
Protection

Safe

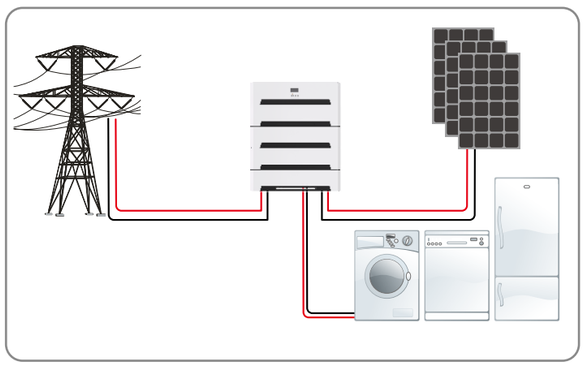
Easy

Solar energy is a fantastic way to get power anywhere the sun shines. It works great but only when the sun is out, so it’s critical to have the best battery possible for storing solar energy. LiFePO4 battery chemistry is one of the best options. It can lower utility bills, generate new revenues, and provide resilience with backup power. When paired with solar PV and other distributed energy resources, battery storage gives your business tremendous flexibility and control over managing energy use and costs.
The battery management systems is used to ensure the optimal use of the residual energy present, protect the batteries from deep discharge, from over-voltage, which are results of extreme fast charge and extreme high discharge current, and provides for cell balancing function, to manage that different battery cells have the same charging and discharging requirements.

Technical Specification

Technical Specification	HRBB-LF510100AA-S	HRBB-LF510150AA-S	HRBB-LF510200AA-S
	BATTERY		
Battery Type	LiFePO4		
Voltage	51.2V 100Ah	51.2V 100Ah x 2	51.2V 100Ah x 4
Energy Capacity	5KWh	7.5KWh	10KWh
Charging Voltage	58.4V		
Charging Current	Max 100A		
Cycle Life	>6000times @80% DOD		
	DISPLAY		
Method	LCD+LED		
	GENERAL DATA		
Standard Charging Current(A)	20	30	40
Max.Continuous Charging Current (A)	100		
Max.Continuous Discharging Current (A)	100		
Humidity	15~95%		
Operating Temperature	Charging: 0~65ºC, Charging: -20~65ºC		
Ambient Temperature	-15~60ºC		
Altitude	<3000m		
Cooling Method	Intelligent redundant fan cooling		
Degree of Protection	IP21		
Communication Mode	RS485/CAN		
Net Weight / Gross	76kg / 61kg	118kg/93kg	118kg/93kg
Dimensions	560*480*170mm	830*480*170mm	830*480*170mm
Package Size	700*120*330mm	970*620*330mm	970*620*330mm

Energy System With Back Up Battery



As a full integrated energy storage system with built-in inverter, LiFePo4 battery, MPPT controller, charger, and management software ready for connection, it is very easy to install, use and maintain.

- LiFePo4 Battery, safest and more professional
- With Built In MPPT controller and inverter
- Modularized Design & Expandable
- Easy Installation
- Easy maintenance
- Design lifetime 10 Years

Technical Specification

Technical Specification	HSP48V100AH	HSP48V200AH	HSP48V300AH	HSP48V400AH
	AC CHARGING			
Input Voltage	110Vac / 220Vac			
Charging Current	60A max			
	PV CHARGING			
PV Input Voltage	120-450V	120-450V	120-450V	120-450V
PV Input Power	5000Wp			
Charging Current	80A			
Charge Type	MPPT			
	BATTERY			
Voltage	51.2V			
Charging Current	Max 100A			
Battery Type	LiFePO4			
	51.2V 100Ah	51.2V 100Ah x 2	51.2V 100Ah x 3	51.2V 100Ah x 4
	5KWh	10KWh	15KWh	20KWh
	OUTPUT			
Rated Power	5KW			
Output Voltage	110V/220AC			
Frequency Range	50/60Hz			
Wave Form	Pure Sine Wave			
	DISPLAY			
Method	LCD+LED			
	GENERAL DATA			
Humidity	15~95%			
Operating Temperature	Charging:0~45ºC, Discharging:-10~45ºC			
Ambient Temperature	-15~60ºC			
Altitude	<3000m			
Cooling Method	Intelligent redundant fan cooling			
Degree of Protection	IP21			
Noise [dBA]	<60 dBA			
Net Weight / Gross	90kg	135kg	180kg	225kg
Dimensions	710*450*192mm x2	710*450*192mm x3	710*450*192mm x4	710*450*192mm x5
Package Size	758*508*255mm x2	758*508*255mm x3	758*508*255mm x4	758*508*255mm x5

Energy System With Back Up Battery

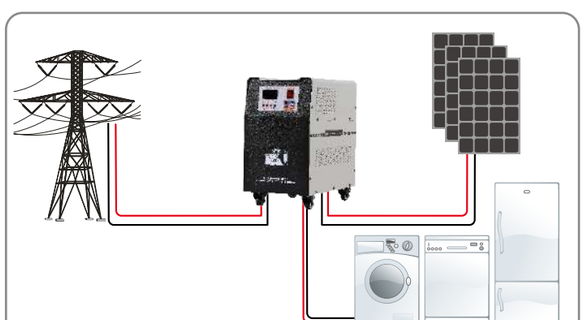
Build-in MPPT

Pure Sine Wave

Three Phase

Safe

Easy



What do you if you're at home and suddenly there's a power outage that lasts anywhere from 3 hours to 3 days? Or when you're out camping but flashlights and conventional power banks go out of power just as you're settling in? Now, with our this all-in-one portable power station, you can enjoy the convenience whenever you need it, wherever you are!

Technical Specification

Technical Specification	HSA500E12	HSA500E24	HSA1K0E12	HSA1K0E24	HSA1K5E24
	AC CHARGING				
Input Voltage	220~240Vac				
Charging Current	10A max				
	PV CHARGING				
PV Input Voltage	10-25V	20-50V	10-25V	20-50V	20-50V
PV Input Power	240Wp	360Wp	360Wp	720Wp	720Wp
Charging Current	80A				
Charge Type	MPPT				
	BATTERY				
Voltage	12V	24V	12V	24V	24V
Charging Current	20A	30A			
Battery Type	Gel battery				
	12V 55Ah x 1	12V 55Ah x 2	12V 100Ah x 2	12V 55Ah x 2	12V 55Ah x 2
	0.66KWh	1.32KWh	2.4KWh	1.32KWh	1.32KWh
	OUTPUT				
Rated Power	500W	500W	1000W	1000W	1500W
Output Voltage	220~240Vac				
Frequency Range	50/60Hz				
Wave Form	Pure Sine Wave				
	DC OUTPUT				
Over Voltage Protection	16V	32V	16V	32V	32V
Low Voltage Protection	11V	22V	11V	22V	22V
5Vdc USB Port	2 ports (2A max)				
12Vdc Output Port	2 ports (2A max)				
	DISPLAY				
Method	LCD+LED				
	GENERAL DATA				
Humidity	15~95%				
Operating Temperature	-10~40ºC				
Ambient Temperature	-15~60ºC				
Altitude	<3000m				
Cooling Method	Intelligent redundant fan cooling				
Degree of Protection	IP21				
Noise [dBA]	<60 dBA				
Gross / Net Weight	26kg / 29kg	39kg / 42kg	40kg/43kg	46kg/49kg	52kg/54kg
Dimensions	360*223*407mm	450*263*476mm			
Package Size	435*305*480mm	530*350*530mm			