



SCAN QR CODE

AUTOMATIC VOLTAGE REGULATOR | INVERTER | UPS
CONVERTER | SOLAR SYSTEM

FOSHAN KTAC TECHNOLOGY CO.,LTD

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INVERTER CATALOGUE

www.scientekpower.com

ABOUT US

COMPANY PROFILE

Power is a fundamental part of our world, Ironically, we don't notice it unless it has problem. Since 2007, KTAC has been dedicated and specializing in research, design, and manufacture of power supply solutions and products against various power supply problems such as power breakouts, fluctuation, power outage, sags, spikes, surges, transient etc. Located in Foshan, the power supply hub of China, KATC holds three factories with more than 8000 square meters production area, 8 production lines, more than 100 workers, with our facility and a highly professional and motivated team of engineering, manufacturing, quality assurance, materials management and sales personnel, KTAC provide the following products and solutions:

- Power inverter
- Power transformer
- Battery Charger
- UPS power supply
- Solar system
- Line conditioner
- Solar charge controller
- Switching power supply
- Automatic voltage stabiliser



Applications for KTAC products include most electrical home appliances such as washing machine, fridge, freezer, TV, fans, Air conditioner, lighting products, stage power supply, personal computers, servers, data center, office electrical equipments, factory electrical equipments and machineries, marine boats, cars, trucks, commercial centers, hotels, residential lighting, automation control system.

With perseverant concentration in power supply and profound understanding of manufacturing and deep awareness of importance of product quality and reliability, KTAC is confident of our ability to support your requirements by providing the highest quality and reliable products, delivered on time, and at competitive prices. Whether it's an industrial, commercial, residential application, KTAC is uniquely positioned to provide products with engineering innovation, proven quality, and high reliability.

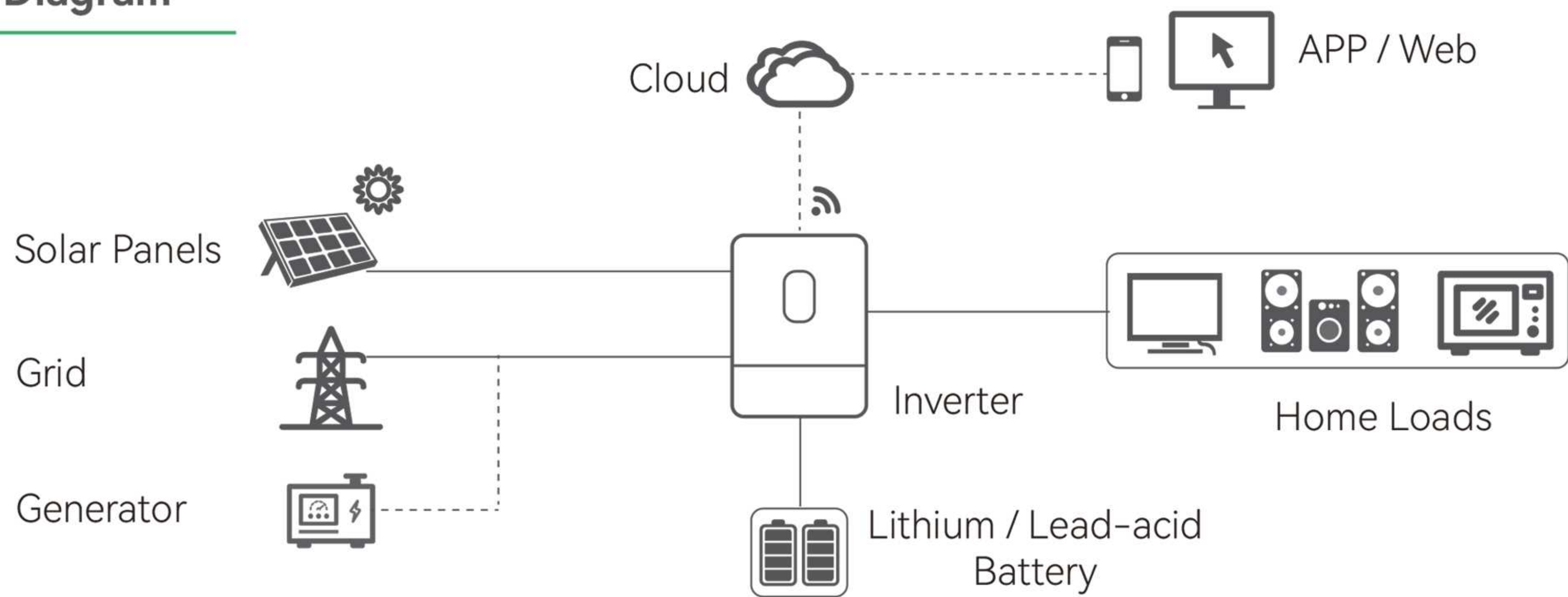


Single Phase

Off-grid Inverter

1.2kw / 3.6kw / 5kw /6.5kw /12kw

System Diagram



Built-in 100A-160A Solar Charger

Wide PV Input Voltage Range 60-500V

Feed-in to Grid

Detachable Dust Cover

BMS Support Lithium/Lead-acid Battery

Lithium Battery Activation

WiFi Monitoring

DUAL Dual AC Output

This is a multi-function inverter/charger,combining functions of inverter.MPPT solar charger and battery charger to offer uninterruptible power support with portable size.Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current,AC/solar charger priority.and acceptable input voltage based on different applications.

Model	GA-1212	GA-3624	GA-5024	GA-6548	GA-12048
System type	Off grid hybrid solar inverter				
AC Input					
Rated Input Voltage(VAC)	208V/ 220V/ 230V/ 240V, L+N+PE				
Voltage Range(VAC)	90~280V±3(normal mode), 170~280V±3(UPS mode)				
Frequency(Hz)	50/60Hz(Auto Adaptive)				
AC Output					
Rated Capacity(W)	1200W	3600W	5000W	6500W	12000W
Surge power(VA)	2400VA	5700VA	10000VA	12000VA	24000VA
Voltage(VAC)	208V/ 220V/ 230V/ 240V				
Power Factor(PF)	1				
Frequency	50/60Hz±0.1%				
Swith Time(ms)	10(APP/UPS mode)/ 20(GEN mode)				
Wave Form	Pure Sine Wave				
Overload Capacity(Battery Mode)	60s@102%~120% load,10s@>120%~200% load	60s@102%~110% load,10s@>110%~130% load, 3s@130%~150% load, 0.2s@>150% load	60s@102%~120% load, 10s@>120% load	60s@102%~110% load, 10s@>110% load	60s@102%~125% load, 10s@>125% load
Max. Efficiency(Battery Mode)	90%@12VDC	92.7%@12VDC	93.5%@24VDC	94%@48VDC	94%@48VDC
Parallel Quantity	NA				
Charger(PV / AC)					
Solar Charger Type	MPPT				Dual MPPTs
Max. PV Input current / Input Power	18A/800W	18A/5000W	27A/9000W	27A/9000W	22.5*2A/15000W
MPPT Range@Operating Voltage(VDC)	17~115V	40~450V	60~450V	60~450V	60~450V
Max. PV Open Circuit Voltage(VDC)	115V	500V	500V	500V	500V
Max. PV Charge Current(A)	50A	100A	160A	120A	160A
Max. AC Charge Current(A)	50A	100A	160A	120A	160A
Max. Charge Current (PV+AC) (A)	100A	100A	160A	120A	160A
Battery					
Rated Voltage(VDC)	12V	24V	24V	48V	48V
Floating Charge Voltage(VDC)	13.8V	27V	27V	54V	54V
Overcharge Protection(VDC)	15V	30.5V	30.5V	61V	61V
Battery Type	Lithium and Lead-acid				
Interface					
HMI	LCD				
Interface	RS232/RS485/CAN				
Monitoring	WiFi				
General Data					
Ingress Protection	IP21				
Operating Temperature	-15℃ ~ 60℃				
Relative humidity	5%~95%(Non-condensing)				
Storage Temperature	-15℃ ~ 60℃				
Max. Operating Altitude	4000m(Derating above 1000m)				
Net weight(kg)	3.5Kgs	6.2kg	8.4kg	8.4kg	15kg
Dimensions(H*W*D)(mm)	301*217*97	420*284*94mm	410*336*110mm	410*336*110mm	495*425*120mm

Ideally use for



OFF GRID INVERTER

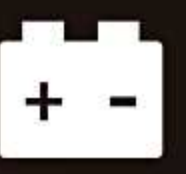
GP Series EU Single Phase

6KL1/12KL1


4-12Kw


500V


230V


48V

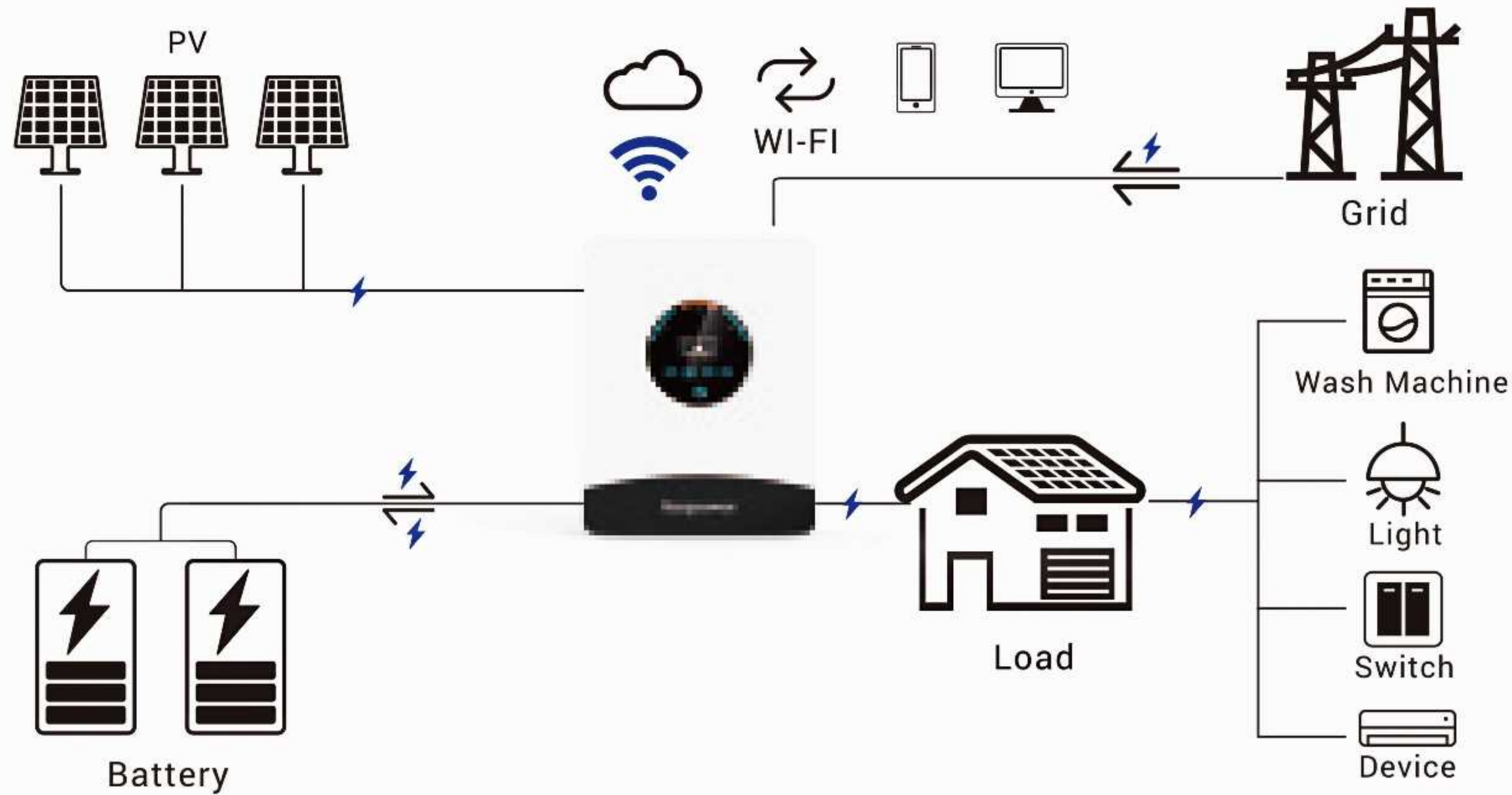

IP54



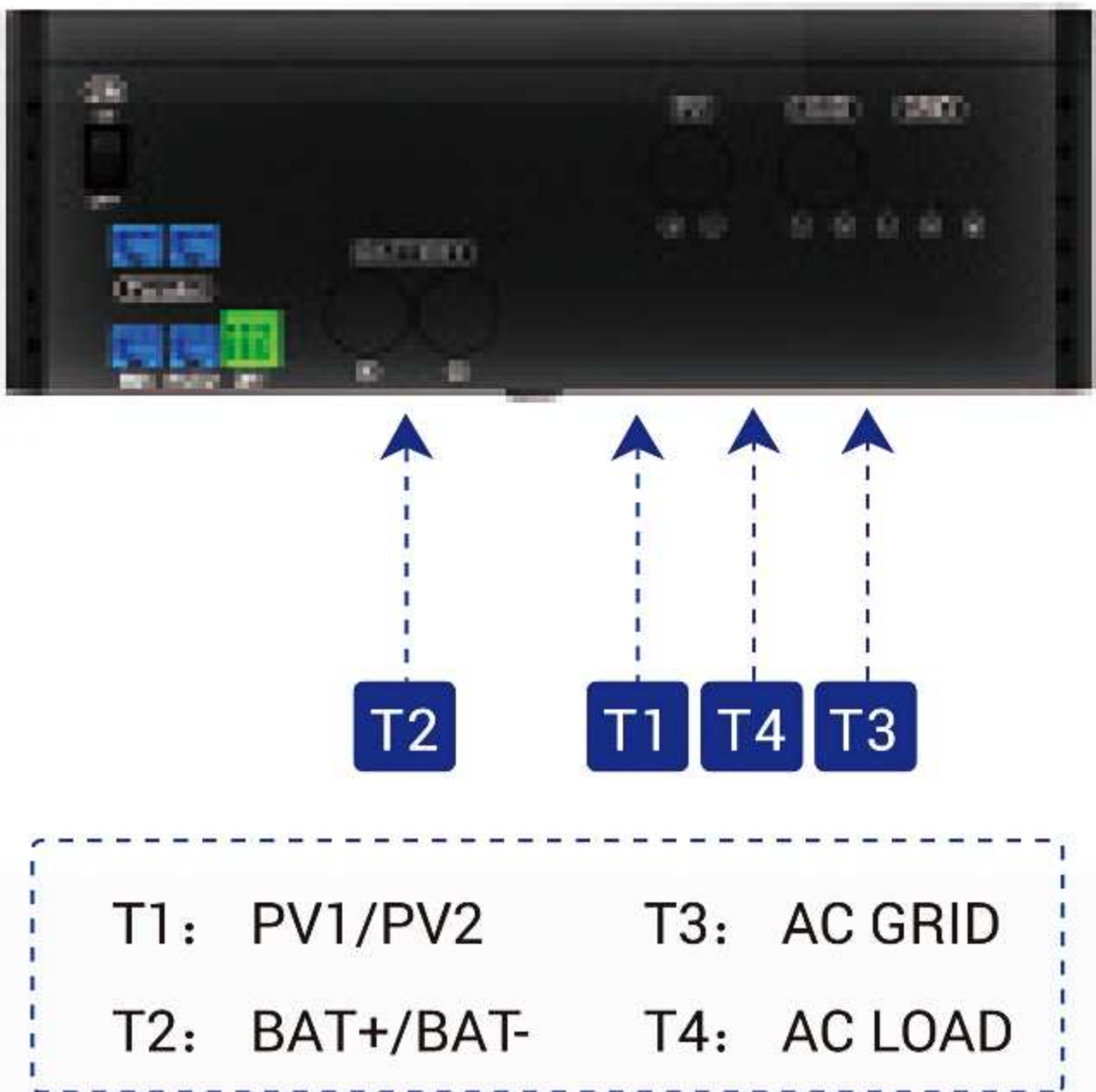
IP54 Design
Pure Sine Wave
Wide MPPT Operating Range
Built-In BMS Communication
Max. 12 Units Parallel
3 Years Warranty

CE EN 62109-1 EN 62109-2 IEC 61000

HOUSE ENERGY SYSTEM (OFF GRID)



CONNECTOR

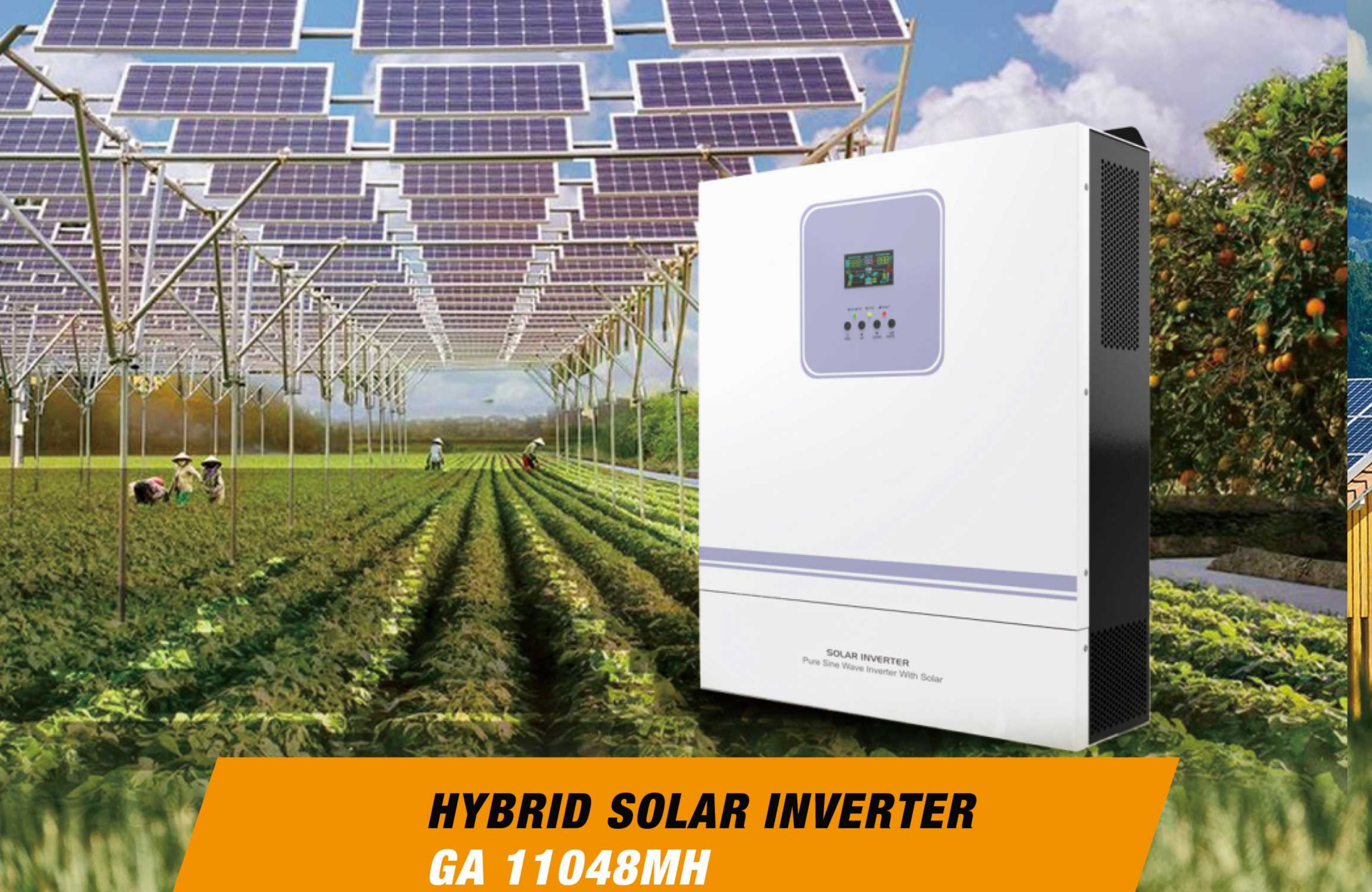


This is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger, and battery charger to offer uninterrupted power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Model	GP-6KL1	GP-12KL1
System type	Off grid hybrid solar inverter	
PV(AC Input)		
Recommended max.PV input power	8000W	16000W
Max.input voltage(Voc)	500V	
MPPT operating voltage range	85V-450V(@85V start up)	
Number of MPPT	1	2
Max.number of input strings per MPPT	2	2
Max. input current per MPPT	27A	27/27A(MAX.54A)
Max. short-circuit current per MPPT	35A	37A/37A
Grid(AC Input)		
Max. input power	11500W	20700W
Max. input current	50A	90A
Rated grid voltage	220/230/240Vac	
Rated grid frequency	50/60Hz	
Acceptable range	170-280Vac(for UPS);90-280Vac(for home appliances)	
Battery Parameters(Bidirection)		
Battery type	LifePO4/Lead-acid	
Battery Voltage range	40-60Vdc	
Rated battery voltage	48Vdc	
Max. charge/discharge current	120A/130A	210A/230A
BMS communication mode	RS485	
Back-up Output(AC Output)		
Rated output power	6000W/6000VA(Twin output)	12000W/12000VA(Twin output)
Rated output current	27.3A	54.5A
Rated output voltage/Frequency	220/230/240Vac 50/60Hz	
Parallel Capacity	Max.12 Units	
Surge power	12000VA 5s	24000VA 5s
THDv(@linear load)	<3%	
Switching time	10ms typical(for UPS) 20ms typical(for home appliances)	
Efficiency		
Peak efficiency	98.00%	
Max. MPPT efficiency	99.90%	
Protection		
Inner protection	√Output short-circuit protection	√Output overvoltage protection
Surge protection	PV:Type III, AC:Type III	
IP rating	IP54	
General Parameters		
Operation temperature range	-10℃~55℃	
Relative humidity range	5%-95%	
Max. operating altitude	>2000m derating	
Standby self-consumption	<10W	<20W
Installation type	Wall-mounted	
cooling mode	Fan cooling	
communication	RS232/RS485/Dry contact/WI-FI	
Display	LCD	
Mechanical Specifications		
Inverter dimensions(L*W*H)(mm)	347*445*120	525*630*125
Net weight(kg)	12.4	28.5
Shipping dimensions(L*W*H)(mm)	560*465*240	715*620*210
Gross weight(kg)	14.6	32
Warranty Period	3 years	

Ideally use for





HYBRID SOLAR INVERTER
GA 11048MH

The GA series is a most advanced new generation hybrid solar inverter. It is designed to make a home solar system easy to operate, inexpensive to maintain and durable to use. This inverter consists of a high efficiency full power pure sine wave inverter, a high current adjustable AC charger and a high efficiency current adjustable MPPT solar charger controller. The all in one systematic design relieves the user from choice and system configuration headaches. Moreover, a large combination of various operation modes make this inverter most adopted in most home and small business solar energy system.

Model	GA11048MH
Nominal Voltage	220V/230V/240VAC
Voltage Range	90~280VAC±3V(Inverter Mode), 170~280VAC±3V(UPS Mode)
Frequency	50-60Hz Auto-sensing
Rate Output Power	11000W
Dual Output Power	11000W/12000W
Second Load Cut Off Voltage	44V
Second Load Return Voltage	52V
Output Voltage(AC)	220V/230V/240VAC±5%
Output Frequency	50/60Hz±0.1%
Waveform	pure sine wave
Transfer Time(AC to DC)	10ms for computer equipment, 20ms for household equipment
Peak Power	22000VA
Overload Capacity(Battery Mode)	21s@105%~150% Load, 11s@150%~200% Load, 400ms@>200% Load
Output Voltage(Grid)	220V/230V/240VAC(Feed-in Grid Voltage Range:195~253VAC)
Grid Voltage Range	170-265VAC
Grid Frequency Range	49-51±1Hz/59-61±1Hz (Feed-in Grid Frequency Range: 49-51+1Hz/59-61+1Hz)
Output Current(Grid)	47.8A
Power Factor Range(Grid)	>0.99
max. PV input voltage	98%
Normal Voltage	48VDC
Constant Charging Voltage	56.4VDC
Float Charging Voltage	54VDC
PV Charging Way	MPPT*2
Max PV Input Power	2*7500W
PV Input Voltage Range	90-500VDC
MAX PV Input Voltage	500VDC
MAX PV Input Current	27/27A
MAX PV Charge Current	150A
MAX AC Charge Current	150A
MAX Charge Current	150A
LCD Display	AC input Voltage, AC input frequency, PV Voltage, PV Current, Output Voltage, Output Frequency, Battery Voltage, Load Current, etc.
RS232	5PIN/Pitch2.0mm
Expansion Slot Communication Interface	2×5PIN/Pitch2.54mm , Lithium battery BMS communication card、WIFI, etc
Parallel Interface	Yes
Operating Temperature	0~40 °C
Humidity	20%~95%(Non-condensing)
Storage Temperature	-15~60°C
Altitude	<1000m
Noise(dB)	≤50dB
Dimensions(H*W*D)(mm)	708*570*241mm
N.W.	19.21kg
G.W.	22.60kg



- Lithium Battery Auto-restart Function, More Convenient for Lithium Battery Charging
- Intelligent Power Supply Mode, Intelligent Distribution of Solar Panel/Mains/Battery Power Shares
- Utility Charging Voltage/PV Charging Voltage Adjustable, Match Different Battery Charging Requirements
- Slim Body, Convenient Installation And Transportation
- Battery Reverse Connection Protection with Fuse Switch, Safer Installation
- PF1.0, High Efficiency, Lower Consumption, Energy Conservation/Environmental Protection/Electricity Saving/Cost Saving
- Support Working without Battery: Reduce Solar System Cost
- Parallel Function Up to Maximum 9 Units: Enlarge More Loads
- High Precision of Output Voltage, ±5%, Take Care of Your Appliances
- Communication Option: External WIFI, Supervise at Any Time
- BMS function for lithium battery

APPLICATION



Island



Construction/housing



Factory/Meeting Center

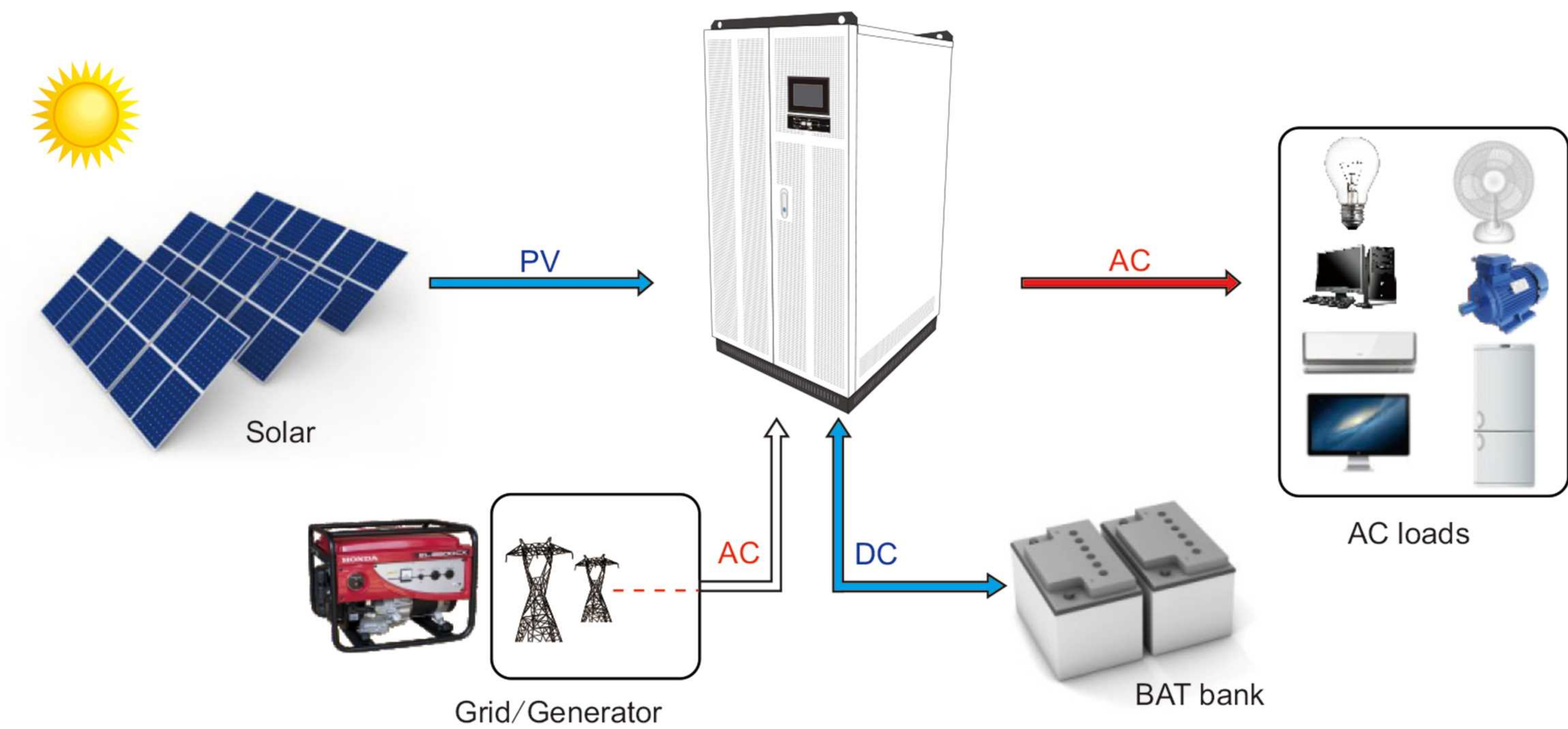


Agriculture/animal husbandry

Ideally use for



3-PHASE SOLAR INVERTER
CPM Series



3-phase Solar Inverter CPM Series

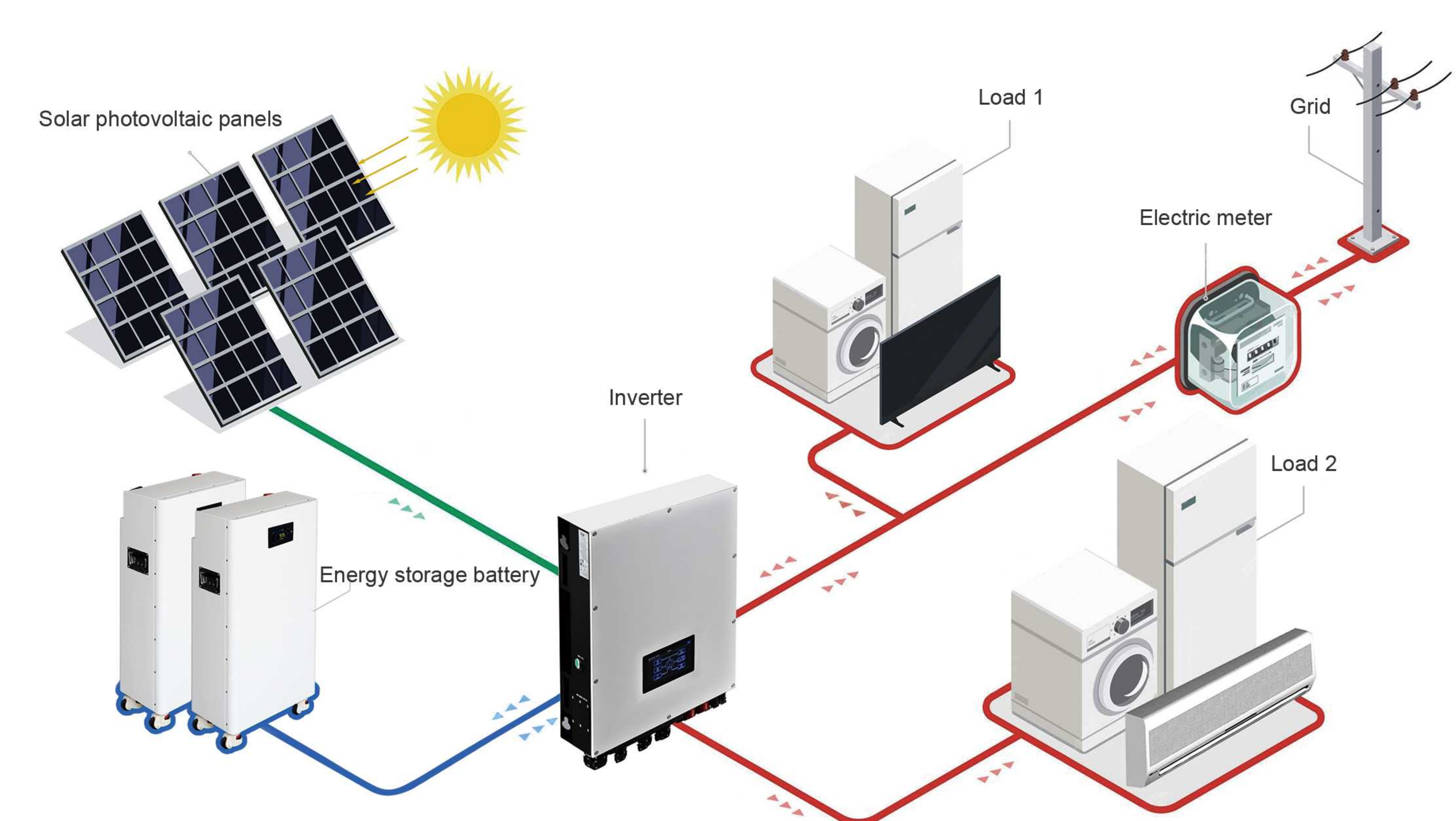
CPM series 3ph solar inverter is transformer based and is a highly intelligent unit, which integrates with digitization, informatization and networking. It has a powerful information acquisition system, signal processing system, detection system and perfect protection system. Touch LCD screen adopts the popular intuitive graphical operation interface. Compared with a regular display module, the touch screen has no complex operation steps. The user can directly click the analog button on the screen to obtain the corresponding information, and the operation is simple and easy to understand.

Inverter with MPPT	CPM30K	CPM50K	CPM80K	CPM100K	CPM120K	CPM160K	CPM200K	CPM300K	CPM500K
Capacity	30KW	50KW	80KW	100KW	120KW	160KW	200KW	300KW	500KW
Battery voltage	192VDC/220VDC/360VDC/384VDC		360VDC/384VDC				384VDC		
Size(L*W*H)mm	702*820*1420(W*D*H)		785*860*1530(W*D*H)			1200*905*2000		1200*900*2000	
Package size(L*W*H)mm	787*905*1620(W*D*H)		860*930*1580(W*D*H)			1320*970*2240		1320*970*2240	
N.W.(KG)	335	415	547	597	657	950	1300	2400	2600
G.W.(KG)	360	440	573	623	683	1000	1350	2500	2700
AC Output									
Phase	Three-phase+N+G								
AC input range	380VAC±20%								
Input frequency	45Hz~55Hz or 55Hz~65Hz					45Hz~55Hz		45Hz~55Hz or 56Hz~64Hz	
AC Output									
Output voltage	inverter mode:380Vac±3%; AC mode:380Vac±20%								
Frequency range(AC mode)	Auto-detect					45Hz~55Hz		45Hz~55Hz or 56Hz~64Hz	
Frequency range(inverter mode)	50Hz/60Hz±0.1Hz					50Hz±0.1Hz		50Hz/60Hz±0.1Hz	
Over load capacity	AC mode(100%-110%:10min; 110%-130%:1min; >130%:1s) inverter mode(100%-110%:30s; 110%-130%:10s; >130%:1s)								
Crest ratio	3:1max								
Transfer time	<10ms								
Waveform	Pure sine wave								
Harmonic distortion	Linear load<3%; Non-linear load<5%								
Balance load voltage	<±1%								
Imbalance load voltage	<±5%								
Efficiency	85%								
Isolation type	output isolation								
Battery									
Battery capacity	it depends on requirement, need to be big size battery models					It depends on the use			
Battery number	Must match system DC voltage					It depends on the use			
Environmental conditions									
Operating temperature	0℃~40℃(Battery life decreases at ambient temperatures above 25 degrees celsius)								
Operation humidity	<95%(without condensing)								
Operating altitude	<1000m(with incerase of 100m, it will reduce output of 1%)max5000m								
Noies	<58dB(distance to machine 1m)								
Built in MPPT									
Battery voltage	220VDC	360VDC	384VDC	384VDC	384VDC				
PV input voltage range	260V~450V								
Max charge current	100A								
Max PV input	22KW	7.2KW	76.8KW	76.8KW	76.8KW				
Management									
Display	7-inch touch screen system								
Communication interface	RS485					RS232,(485、 Network remote monitoring options)			

Ideally use for



HYBRID GRID PHOTOVOLTAIC ENERGY STORAGE SYSTEM
SCHEMATIC DIAGRAM



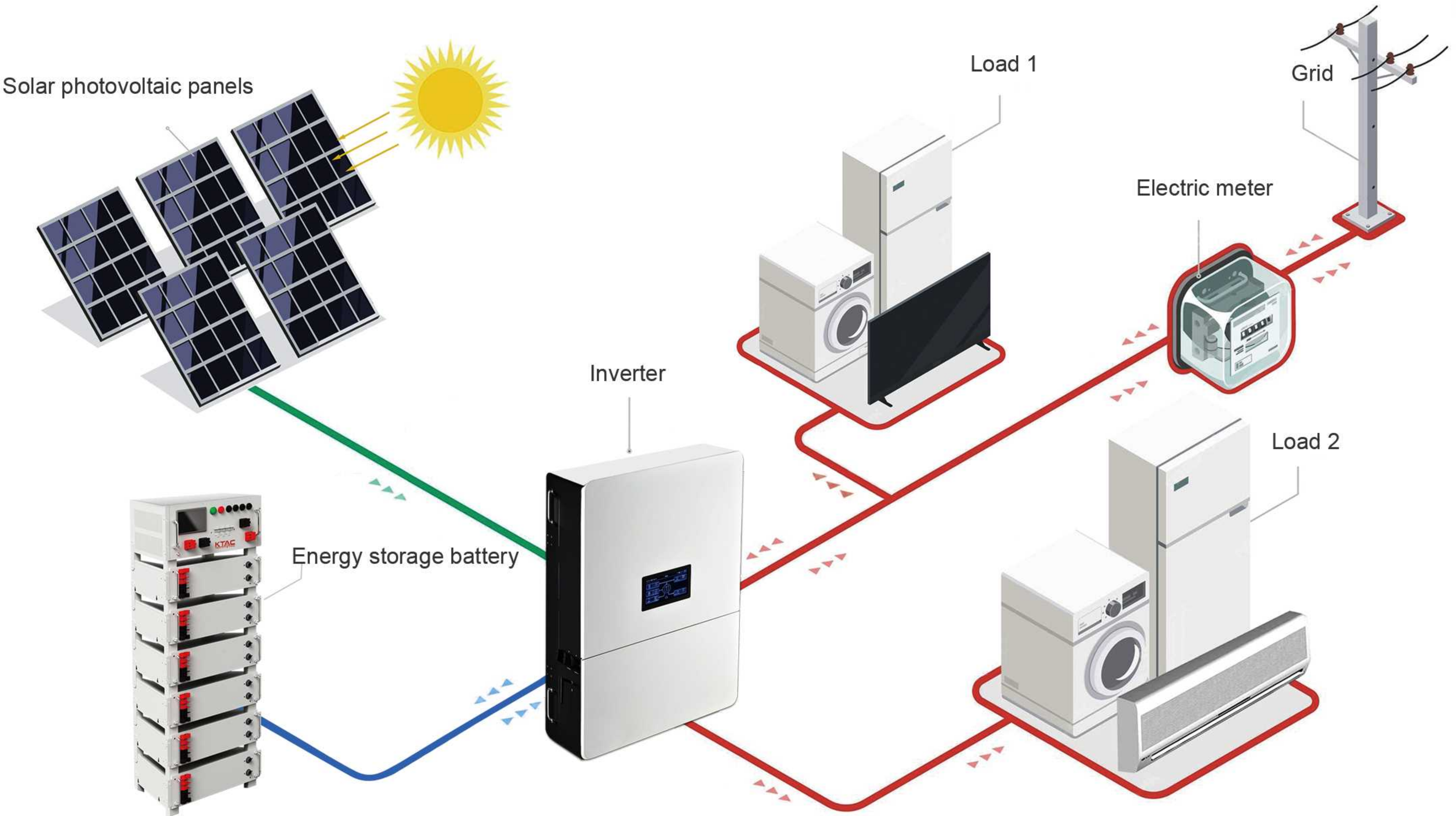
InfiniSolar inverters deliver >96.5% efficiency, multi-MPPT optimization, Supports energy storage from generator, Dual inputs and dual outputs for smart energy management , 150% unbalanced load support, Built-in WiFi with APP for mobile monitoring, and wide voltage compatibility, ideal for residential/commercial solar, microgrids, and energy storage systems with hybrid/grid-tied flexibility.

MODEL	InfiniSolar WP Elite 8KW	InfiniSolar WP Elite 10KW	InfiniSolar WP Elite 12KW	InfiniSolar WP Elite 15KW
Maximum PV Input Power	12000W	15000W	18000W	24000W
Rated Output Power	8000W	10000W	12000W	15000W
Maximum Charging Power	8000W	10000W	12000W	15000W
GRID-TIE OPERATION				
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage	720 VDC / 900 VDC			
Start-up Voltage / Initial Feeding Voltage	150 VDC / 150 VDC			
MPP Voltage Range	150 VDC ~ 850 VDC			
Full MPP Voltage Range	400 VDC ~ 850 VDC	420 VDC ~ 850 VDC	400 VDC ~ 850 VDC	
Number of MPP Trackers / Maximum Input Current	2 / A:15A, B:15A	2 / A:18A, B:18A	2 / A:27A, B:18A	2 / A:36A, B:36A
GRID OUTPUT (AC)				
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)			
Output Voltage Range	184 - 265 VAC* per phase			
Nominal Output Current	11.6 A per phase	14.5 A per phase	17.4 A per phase	21.7 A per phase
Power Factor range	0.9 lag ~ 0.9 lead			
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	>96%			
European Efficiency@ Vnominal	>95%			
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase			
Acceptable Input Voltage Range	170 - 290 VAC per phase			
Maximum AC Input Current	40A			60A
PV INPUT (DC)				
Maximum DC Voltage	900 VDC			
MPP Voltage Range	150 VDC ~ 850 VDC			
Full MPP Voltage Range	400 VDC ~ 850 VDC	420 VDC ~ 850 VDC	400 VDC ~ 850 VDC	
Number of MPP Trackers / Maximum Input Current	2 / A:15A, B:15A	2 / A:18A, B:18A	2 / A:27A, B:18A	2 / A:36A, B:36A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)			
Output Waveform	Pure sine wave			
Efficiency (DC to AC)	>93%			
HYBRID OPERATION				
PV INPUT (DC)				
Maximum DC Voltage	900 VDC			
Start-up Voltage / Initial Feeding Voltage	150 VDC / 150 VDC			
MPP Voltage Range	150 VDC ~ 850 VDC			
Full MPP Voltage Range	400 VDC ~ 850 VDC	420 VDC ~ 850 VDC	400 VDC ~ 850 VDC	
Number of MPP Trackers / Maximum Input Current	2 / A:15A, B:15A	2 / A:18A, B:18A	2 / A:27A, B:18A	2 / A:36A, B:36A
GRID OUTPUT (AC)				
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)			
Output Voltage Range	184 - 265 VAC* per phase			
Nominal Output Current	11.6 A per phase	14.5 A per phase	17.4 A per phase	21.7 A per phase
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC(P-N) / 180 VAC(P-P)			
Acceptable Input Voltage Range	170 - 290 VAC per phase			
Maximum AC Input Current	40A			60A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)			
Efficiency (DC to AC)	>93%			
BATTERY & CHARGER				
Battery Voltage Range	40 ~ 60 VDC			
Maximum Discharging Current	200 A	220A	250A	280A
Maximum Charging Current	160A	200A	240A	280A
GENERAL				
PHYSICAL				
Dimension, D x W x H (mm)	247 x 500 x 650			247 x 504.4 x 714.4
Net Weight (kgs)	50		54	59
INTERFACE				
Communication Port	RS-232, RS-485, USB, CAN and Wi-Fi			
Intelligent Slot	Optional for SNMP and Modbus cards			
ENVIRONMENT				
Humidity	0 ~ 100% RH (Non-condensing)			
Operating Temperature	-25 to 50°C, > 45°C power derating			
Altitude	0 ~ 1000 m**			
PROTECTION & CERTIFICATE				
Safety	IEC 62116, IEC 61727, IEC 61683, IEC 62109, IEC 61000-6-2:2019, IEC 61000-6-4:2019, IEC 61000-3-11:2019, EN 61000-3-12:2011			
Grid Connection Standard	EN 50549-1, VDE-AR-N4105			



3-PHASE HYBRID INVERTER
InfiniSolar WP Elite 30-50KW

HYBRID GRID PHOTOVOLTAIC ENERGY STORAGE SYSTEM
SCHEMATIC DIAGRAM



The InfiniSolar WP II series (30-50kW) is an IP65-rated hybrid inverter with a wide battery range (200-900V), up to 100A charge/discharge, and parallel operation for scalable power. It features dual AC input, With built-in Wi-Fi, dual AC input for automatic grid/generator switching, and multiple BMS communication ports, it offers intelligent energy management. Ideal for commercial, industrial, residential, and off-grid applications, it ensures high efficiency (up to 97%) and reliable backup power in diverse environments.

MODEL	InfiniSolar WP Elite 30KW	InfiniSolar WP Elite 50KW
Maximum PV Input Power	48000W	66000W
Rated Output Power	30000W	50000W
Maximum Charging Power	30000W	50000W
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	720 VDC / 300VDC ~ 1000 VDC	
Start-up Voltage / Initial Feeding Voltage	300 VDC / 350 VDC	
MPP Voltage Range	350 VDC ~ 900 VDC	
Number of MPP Trackers / Maximum Input Current	3 /36A for each	4 /36A for each
Number of Strings Per MPP Tracker	2	2
GRID/UTILITY OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 ~ 265 VAC* per phase	
Output Frequency Range	47.5 ~ 51.5Hz or 59.3 ~ 60.5Hz	
Power Factor range	0.9 lag to 0.9 lead	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	>96.5%	
European Efficiency@ Vnominal	>95%	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase	
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum AC Input Current	47.9A	79.8A
PV INPUT (DC)		
Nominal DC Voltage/DC Voltage Range	720 VDC / 300VDC ~ 1000 VDC	
MPP Voltage Range	350 VDC ~ 900 VDC	
Number of MPP Trackers / Maximum Input Current	3 /36A for each	4 /36A for each
Number of Strings Per MPP Tracker	2	2
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	>97%	
HYBRID OPERATION		
PV INPUT (DC)		
Maximum DC Power	48000W	65000W
Nominal DC Voltage/DC Voltage Range	720 VDC / 300VDC ~ 1000 VDC	
Start-up Voltage / Initial Feeding Voltage	300 VDC ~ 350 VDC	
MPP Voltage Range	350 VDC ~ 900 VDC	
Number of MPP Trackers / Maximum Input Current	3 /36A for each	4 /36A for each
Number of Strings Per MPP Tracker	2	2
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Output Voltage Range	184 - 265 VAC* per phase	
Nominal Output Current	43.5 A per phase	72.5 A per phase
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase	
Acceptable Input Voltage Range	170 - 280 VAC per phase	
Maximum AC Input Current	47.9A	79.8A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Efficiency (DC to AC)	>97%	
BATTERY & CHARGER		
Battery Voltage Range	200 ~ 900VDC	200 ~ 900VDC
Maximum Charging/discharging Current	50A	100A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	290 x 580 x 900	290 x 580 x 900
Net Weight (kgs)	85	90
INTERFACE		
Communication Port	RS-232, USB, dry contact, RS-485, CAN and Wi-Fi	
Intelligent Slot	Optional SNMP or Modbus	
ENVIRONMENT		
Humidity	0 ~ 100% RH	
Operating Temperature	-20 to 60°C (> 45°C De-rating)	
Altitude	0 ~ 1000 m**	
PROTECTION & CERTIFICATE		
EMI/Safety	IEC61000,EN62920,EN62477,EN62619	
Grid Connection Standard	IEC61683,IEC61727,IEC62116	NRS097-2-1,IEC61683,IEC61727,IEC62116(EN50549-1+-10,CQC)



LOW FREQUENCY PURE SINE WAVE INVERTER
TPD SERIES



This inverter power supply offers an AC power solution where power outage occur and when AC power is not stable, it swiches the power supply to the load between the grid power supply and the battery backup power supply automati- cally. When grid power is available, its built in intelligent high current charger automatically charges the battery while it powers the load with stabilized voltages. When AC power fail, it switches to battery backup within 10 ms transfer time, With advanced CPU control, it enhanced the efficiency of power conversion. A informative LCD display gives the user friend interface of working status, battery capacity, voltages and frequency of the inverter. It is an ideal power inverter to be used at home for heaters, fridges, freezer, air conditioners, boiler pumps fans, TV and other electrical home appliances.

MODEL	TPD-2000	TPD-3000	TPD-5000	TPD-6000	TPD-8000	TPD-10000	TPD-12000	TPD-15000
Peak Power	2KW	3KW	5KW	6KW	8KW	10KW	12KW	15KW
Peak Capacity	6KW	9KW	15KW	18KW	24KW	30KW	36KW	45KW
Standard Battery Voltage	24/48V	24/48V	24/48/96V	24/48/96V	48/96V	48/96V	48/96V	48/96V
Built-in MPPT Controller								
Charging Current	60A	60A	60A/120A	60A/120A	60A/120A	60A/120A	60A/120A	60A/120A
PV Input Interface	1 channel (60A); 2 channels (120A)							
PV Input Voltage Range	30V-180V (24V system); 60V-180V (48V system); 120V-180V (96V system)							
Max PV Input Power	60A: 1440W (24V system); 2880W (48V system); 5760W (96V system);120A: 2880W (24V system); 5760W (48V system); 11520W (96V system)							
Max Charging Current Adjustable	Off/30A/60A/90A/120A (PV charging can be turned off; 90A/120A indicates 2 PV input channels)							
Controller Conversion Efficiency	≈99%							
Unattended Mode	In shutdown state: MPPT can charge when sunlight is available, enabling photovoltaic unattended operation							
Input								
DC Input Voltage Range	10.5VDC-15VDC (per 12V battery voltage)							
Utility Input Voltage Range	110VAC: (80-130)VAC; 220VAC: (160-260)VAC/(130-280)VAC field adjustable							
Utility Input Frequency	45Hz-65Hz intelligent auto-detection							
Utility Charging Current Optional	Off (indicates turning off the utility charging function)							
Output								
Inverter Output Waveform	Pure Sine Wave							
Inverter Output Efficiency	≈90%							
Inverter Output Voltage	200V/210V/220V/230V/240V field adjustable							
Inverter Output Frequency	50Hz/60Hz field adjustable							
Utility Output Voltage	110VAC±10% / 220VAC±10%							
Utility Output Frequency	Auto tracking							
Energy Saving Mode Loss	5W							
Operating Modes								
Inverter Operating Modes	Utility Priority Mode, Battery Priority Mode, Energy Saving Mode, Unattended Mode, Generator Mode							
Screen Operating Mode	Normal Mode / Open Mode							
Battery Parameters								
Supported Battery Types	Lead Acid Battery / Gel Battery / LiFePO4 Battery / Ternary Lithium Battery / Custom Battery							
Battery Customization Parameters	Constant Voltage Charging, Float Charging, Battery Recovery, Utility Recovery, Low Voltage Alarm, Low Voltage Protection							
Battery Charging Method	Lead Acid: Three-stage charging, Constant Current, Constant Voltage, Float Charge Lithium Battery: Constant Current, Constant Voltage							
Optional NO. of Lithium Battery Cells in Series	LiFePO4: 3.2V per cell Ternary Lithium: 3.7V per cell							
Protection	Battery undervoltage / Battery overvoltage / Overload protection / High temperature protection / Charging method protection, etc.							
LCD display								
LCD display	Utility Status, Inverter Status, Charging Status, Alarm							
Screen Display	Operating Status, Input/Output Voltage, PV Information Display, Inverter Parameter Settings, etc.							
Display Language	Chinese / English (Optional)							
Others								
Transfer time	<5ms							
Cooling Method	Intelligent Temperature Control							
Communication	RS232 / RS485 (Optional)							
Operating Temperature	-10℃~40℃							
Altitude	≤3000m							
Dimensions	480*250*455mm	480*250*455mm	60A:480*250*455mm/120A:605*250*455mm	605*250*455mm	605*250*455mm	605*250*455mm	605*250*455mm	605*250*455mm
Net Weight	23kg	26kg	32kg	35kg	43kg	48kg	55kg	67kg

Ideally use for



Low Frequency pure sine wave inverter TPD SERIES



HYBRID INVERTER WITH CONTROLLERS TPW SERIES-SPLIT PHASE

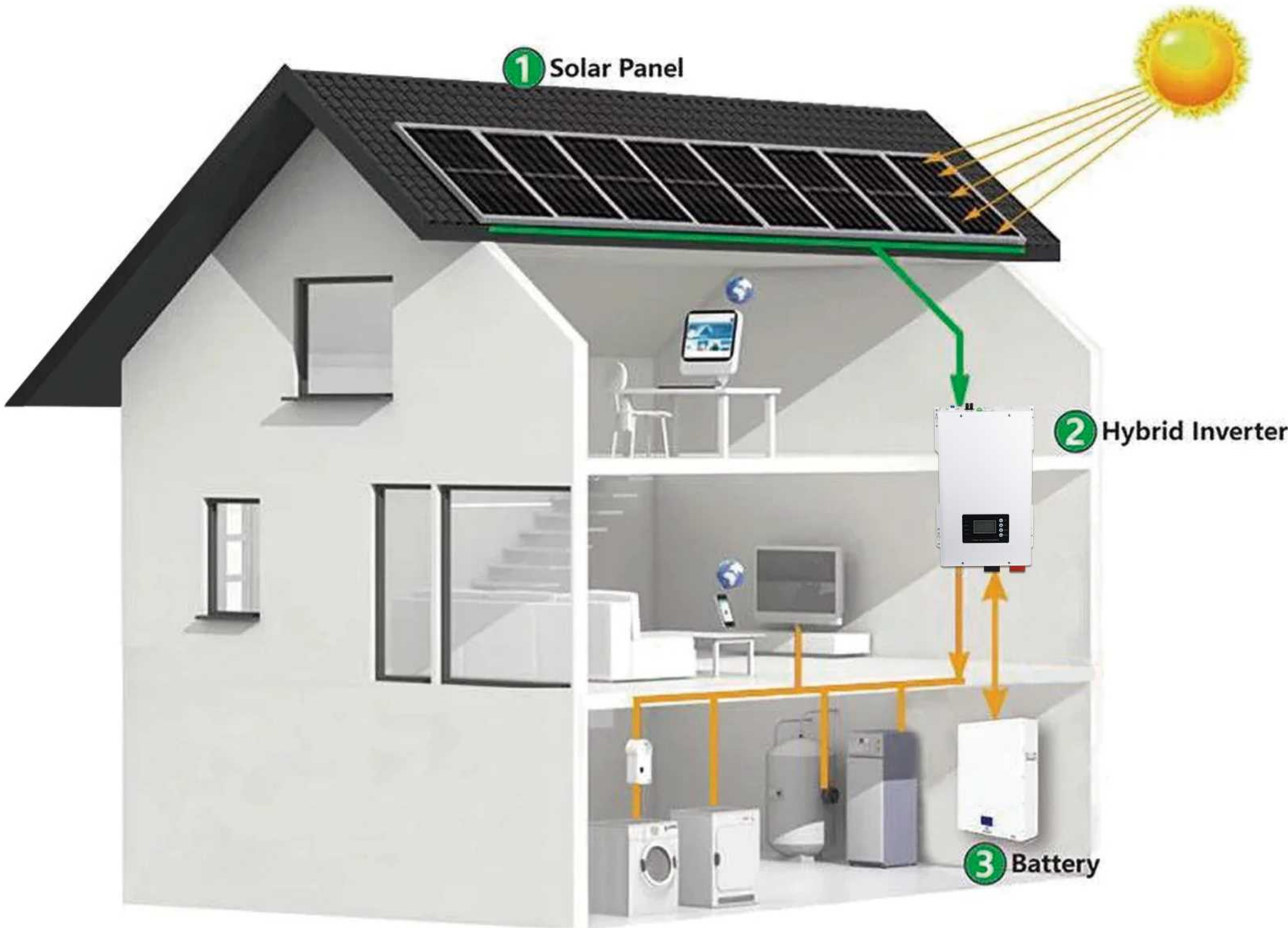


HYBRID INVERTER WITH CONTROLLERS TPW SPLIT PHASE

This inverter power supply offers an AC power solution where power outage occur and when AC power is not stable, it switches the power supply to the load between the grid power supply and the battery backup power supply automatically. When grid power is available, its built in intelligent high current charger automatically charges the battery while it powers the load with stabilized voltages(80A MPPT solar controller with 230V PV input for optional and extra charge)When AC power fail, it switches to battery backup within 10 ms transfer time, With advanced CPU control,it enhanced the efficiency of power conversion. A informative LCD display gives the user friend interface of working status,battery capacity, voltages and frequency of the inverter. It is an ideal power inverter to be used at home for heaters, fridges, freezer, air conditioners, boiler pumps fans, TV and other electrical home appliances.



Home Use Solar Power System



MODEL	TPW-2000	TPW-3000	TPW-5000	TPW-6000	TPW-8000	TPW-10000	TPW-12000
Capacity	2KW	3KW	5KW	6KW	8KW	10KW	12KW
Peak Capacity	6KW	9KW	15KW	18KW	24KW	30KW	36KW
Battery voltage	24/48V		48V				
Input							
DC Input voltage range	20VDC-33VDC (24V) 40VDC-66VDC (48V)						
AC Input voltage range	208VAC: (160-260)VAC						
AC Input frequency	45HZ-65HZ auto synchronization						
Output							
Output Wave	PURE SINE WAVE						
Output efficiency	≈90%						
Output voltage	110V+220Vac (L1-N=110V, L2-N=110V, L1-L2=220V)						
Output frequency	50Hz/60Hz, can adjust at site						
ECO mode and loss	5W						
Working mode							
Inverter working mode	AC priority, DC priority, ECO mode, unattended mode, generator mode						
LCD display working mode	Normal mode/ "ON" mode						
AC Charger							
Battery types	Lead-acid battery/GEL battery/ lithium iron phosphate battery/ ternary lithium battery/customized battery						
Battery customized parameters	Constant voltage charging, Floating charging, battery recover, AC recover, low voltage alarm and low voltage protection						
Charge type	Lead-acid: three steps, constant current charging, constant voltage charging, floating charging Lithium battery: constant current charging, constant voltage charging						
Lithium battery charge	Support, the user can set charge voltage according to lithium battery type and strings.						
Charge current	20A/30A	25A/35A	40A/50A	40A/50A	60A/80A	60A/80A	60A/80A
MPPT Charger (Optional)							
Max PV Voltage	230VDC (max)						
Max PV charge current	60A	80A	80A	80A	80A	80A	80A
LCD display							
LCD display	AC status, DC status, charging status and alarm						
Front panel display	Working status, input and output voltage, PV parameters and inverter parameters						
Language	Chinese/English can choose						
Physical							
Transfer time	<5ms						
Heat-dissipating type	Intelligent temperature control						
Communications	RS232/ RS485 (can choose)						
Working temperature	-10℃~40℃						
Altitude	≤3000m						
Dimensions	500*320*200mm				640*360*215mm		
Net Weight	16.5kgs	21kgs	25kgs	29kgs	32kgs	36kgs	40kgs

Ideally use for





PURE SINE WAVE HOME INVERTER
TPS SERIES 500-2000VA

LOW FREQUENCY TRANSFORMER BASED **BUILD YOUR POWER SYSTEM WITH ONLY**
PURE SINE WAVE INVERTER **ONE 12V BATTERY**



- Ultra thin wall mount design
- TPS= inverter + charger+UPS
- Low frequency transformer based pure sine wave inverter
- Build your power system with only one 12V battery



PURE SINE WAVE HOME INVERTER **TPS SERIES**

This inverter power supply offers an AC power solution where power outage occur and when AC power is not stable, it switches the power supply to the load between the grid power supply and the battery backupp power supply automatically. When grid power is available, its built in intelligent high current charger automatically charges the battery while it powers the load with stabilized voltages. Apart from AC charger, a built in solar charge controller optional makes this inverter accessible to solar power. When AC power fail, it switches to battery backup within 10 ms transfer time, With advanced CPU control, it enhanced the efficiency of power conversion. A informative LCD display gives the user friend interface of working status,battery capacity, voltages and frequency of the inverter. It is an ideal power inverter to be used at home for heaters, boiler pumpsfans, TV and other electrical home appliances.



Model	TPS-500	TPS-800	TPS-1000	TPS-1300	TPS-1500	TPS-2000
Power capacity	500VA/300W	800VA/480W	1000VA/600W	1300VA/800W	1500VA/1200W	2000VA/1600W
Type	Low frequency pure sine wave inverter charger UPS					
Transformer	Toroidal transformer					
Input						
Rated Input voltage	230VAC					
Input voltage range	140-270VAC					
Input Frequency	50Hz or 60Hz (auto-sensing)					
Input connector	Power plug					
Output						
AC mode Output voltage	190-245VAC					
Inverter mode output Volt.	230VAC±3%					
Transfer time	<10ms					
Output frequency range	50Hz±0.2%					
Waveform(battery mode)	pure sine wave					
Harmonic Distortion	≤3%THD(linear load),≤6%THD(non linear load)					
Battery						
Battery type	Lead acid /AMG/GEL/ Flood / LiFePO4 battery 12V					Lead acid /AMG/GEL/ Flood / LiFePO4 battery 24V
Charge current	8A(max)	15A(max)	18A(max)	23A(max)	34A(max)	23A(max)
Protection						
Full protection	Over voltage protection, under voltage protection, over heat protection, short circuit protection, and overload protection					
Overload capability	AC mode: Continuous buzzer alarm, Do not cut off output. Battery mode: 105% overload: Alarm buzzer triggers. 110%-120% overload: Inverter system shut down after 1 minute. 130-140% overload: Inverter system shutdown after 10 seconds. ≥150% overload: Inverter system shutdown immediately.					
Display & Indicators						
Status display	LCD display: AC input voltage, output voltage, battery voltage,battery capacity, load percentage etc.					
Physical						
Operation Temperature	-5~40 °C(non condensing)					
Operation Humidity	Relative humiditiy 20-90%,Non condensing					
Dimensions(LXWXH)	310*270*85mm				355*285*115mm	
Net Weight	5.3kgs	6.6kgs	6.8kgs	8.0kgs	10.2kgs	11.5kgs

Ideally use for



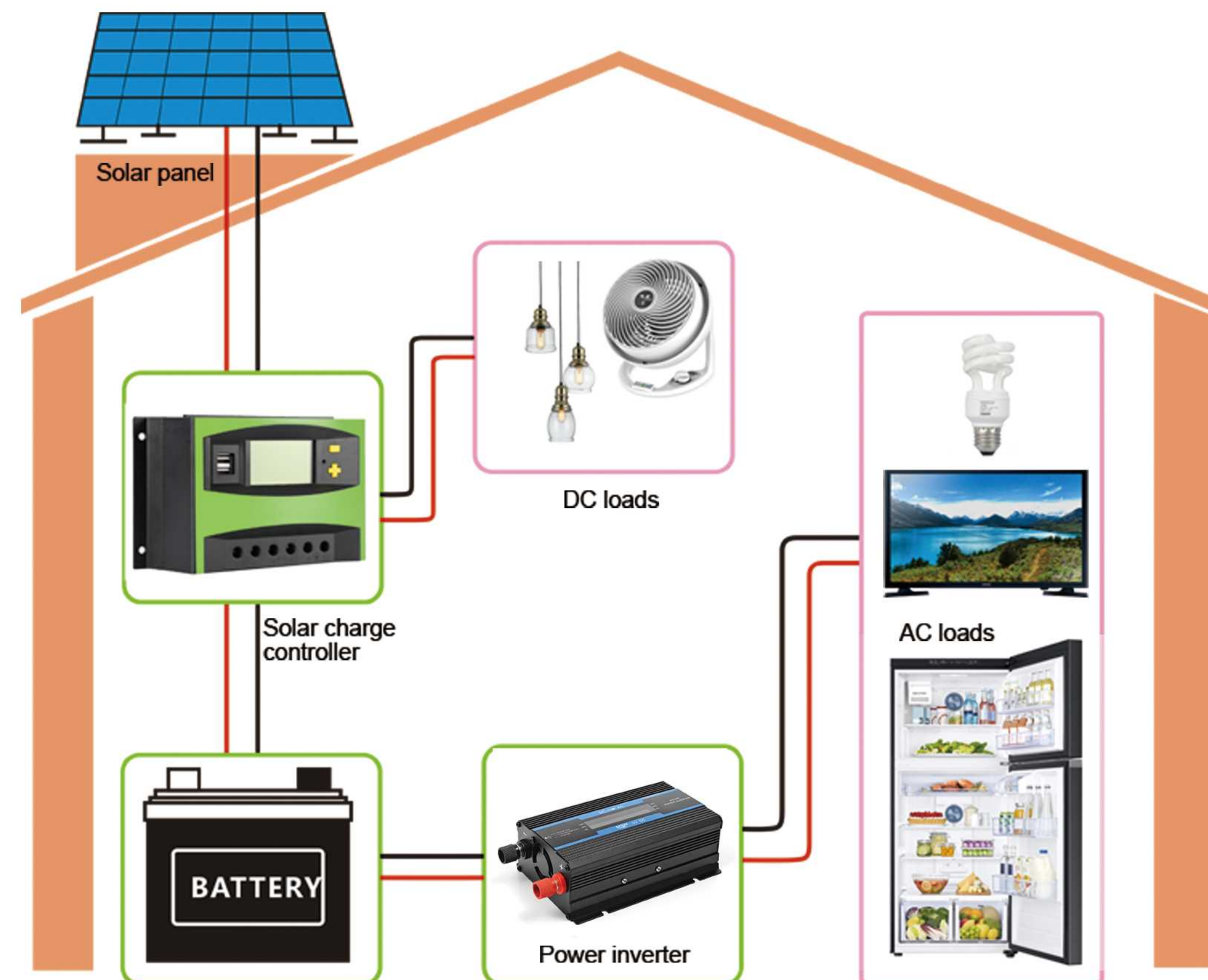


This inverter power supply offers an AC power solution where power outage occur or where AC power is not available, it converts 12V/24V/48V/60V/72V DC power to 110V/220V standard AC power, ideal use in vehicle, boats, vessels, and for home emergency power backup. Advanced MCU controlled integrated guarantees maximum efficiency and reliability.

- Digital LCD display
- 350VA~1500VA, modified sine wave form output
- High quality anodized aluminum housing
- Full protection systems: Thermal protection, Overload protection, Over Voltage protection
- Reliable continuous long time performance
- Under Voltage protection, Low Voltage protection alarm



TYPICAL APPLICATION



MODEL	TCI-350	TCI-500	TCI-800	TCI-1000	TCI-1500
power capacity	700VA/350W	1000VA/500W	1600VA/800W	2000VA/1000W	3000VA/1500W
DC input					
input voltage	12VDC/24VDC/48VDC/60VDC/72VDC(factory set)				
Idle Current(@12V)	0.15A	0.15A	0.25A	0.25A	0.30A
Efficiency	85%	85%	85%	85%	85%
Input connector	Red and black DC input terminals				
AC output					
Output voltage	110V / 220VAC(factory set)				
Output voltage range	110V / 220VAC±10% (factory set)				
continuous power	350W	500W	800W	1000W	1500W
Surge power	700W	1000W	1600W	2000W	3000VA
output wave form	Modified Sine Wave				
output frequency	50/60Hz ±3Hz (factory set)				
output receptacle	Multinational Socket available				
USB Charger					
USB Charger	1 x USB, 5V/1A				
Protection					
input DC under voltage	9.5V±0.5VDC(12V) 20V±0.5VDC(24V) 40V±0.5VDC(48V) 50V±0.5VDC(60V) 60V±0.5VDC(72V)				
input DC over voltage	15.5V±0.5VDC(12V) 30V±0.5VDC(24V) 60V±0.5VDC(48V) 75V±0.5VDC(60V) 90V±0.5VDC(72V)				
overload	auto shut down				
DC polarity reverse	auto shut down				
short circuit	auto shut down				
over heat	auto shut down				
Audible Alarm	Yes				
Cooling	intelligent cooling fan				
Display & Indicator					
Digital Display	Battery Voltage, output voltage, frequency, Energy capacity, load capacity.				
LED indicator	Power,fault				
Physical					
Case	anodized aluminum				
Dimensions(LXWXH)mm	145*112*55	190*112*55	230*112*55	275*112*55	315*112*55
Net Weight(kgs)	0.45	0.55	0.75	0.95	1.15

Ideally use for





MODIFIED SINE HOME INVERTER
TCI-MAX 2000-5000

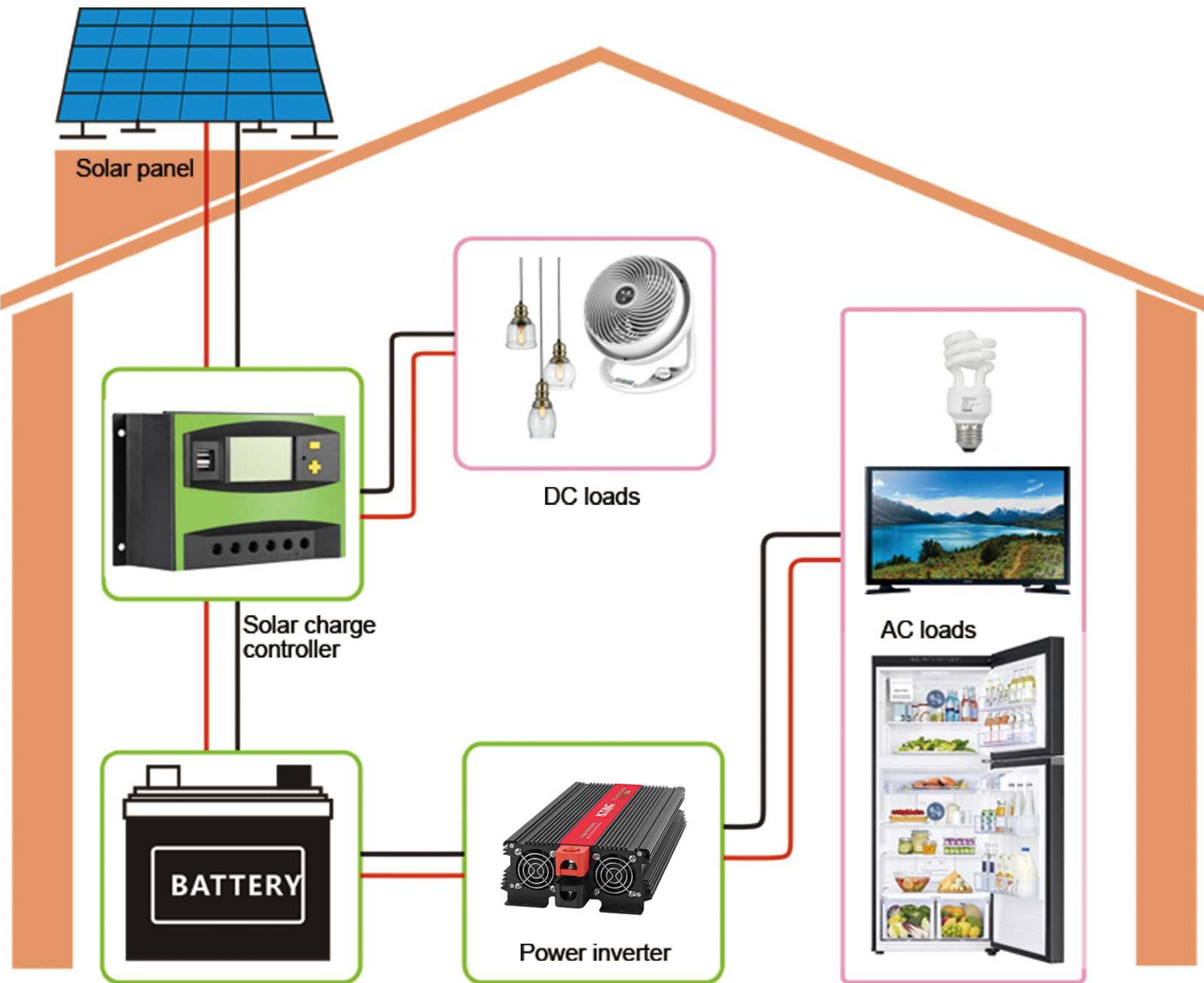


This inverter power supply offers an AC power solution where power outage occur or where AC power is not available, it converts 12V/24V/48V/60V/72V DC power to 110V/220V standard AC power, ideal use in vehicle, boats, vessels, and for home emergency power backup. Advanced MCU controlled integrated guarantees maximum efficiency and reliability.

- Digital LCD display
- 2000VA~5000VA, modified sine wave form output
- High quality anodized aluminum housing
- Full protection systems: Thermal protection, Overload protection, Over Voltage protection
- Reliable continuous long time performance
- Under Voltage protection, Low Voltage protection alarm



TYPICAL APPLICATION



MODEL	TCI-2000max	TCI-3000max	TCI-4000max	TCI-5000max
power capacity	4000VA/2000W	6000VA/3000W	8000VA/4000W	10KVA/5000W
DC input				
input voltage	12VDC/24VDC/48VDC/60VDC/72VDC(factory set)			
Idle Current(@12V)	0.31A	0.45A	0.62A	0.7A
Efficiency	85%	85%	85%	85%
Input connector	Red and black DC input terminals			
AC output				
Output voltage	110V / 220VAC(factory set)			
Output voltage range	110V / 220VAC±10% (factory set)			
continuous power	2000W	3000W	4000W	5000W
Surge power	4000W	6000W	8000W	10000W
output wave form	Modified Sine Wave			
output frequency	50/60Hz ±3Hz (factory set)			
output receptacle	Multinational Socket available			
Protection				
input DC under voltage	9.5V±0.5VDC(12V) 20V±0.5VDC(24V) 40V±0.5VDC(48V) 50V±0.5VDC(60V) 60V±0.5VDC(72V)			
input DC over voltage	15.5V±0.5VDC(12V) 30V±0.5VDC(24V) 60V±0.5VDC(48V) 75V±0.5VDC(60V) 90V±0.5VDC(72V)			
overload	auto shut down			
DC polarity reverse	auto shut down			
short circuit	auto shut down			
over heat	auto shut down			
Audible Alarm	Yes			
Cooling	intelligent cooling fan			
Display & Indicator				
LCD Display	Battery Voltage, output voltage, frequency, Energy capacity, load capacity, Load power.			
Physical				
Case	anodized aluminum			
Dimensions(LXWXH)mm	355*172*70	425*172*70	355*172*132	355*172*132
Net Weight(kgs)	2.7	3.8	5.5	6.3

Ideally use for





PURE SINE HOME INVERTER
TDM-MAX 1500-5000

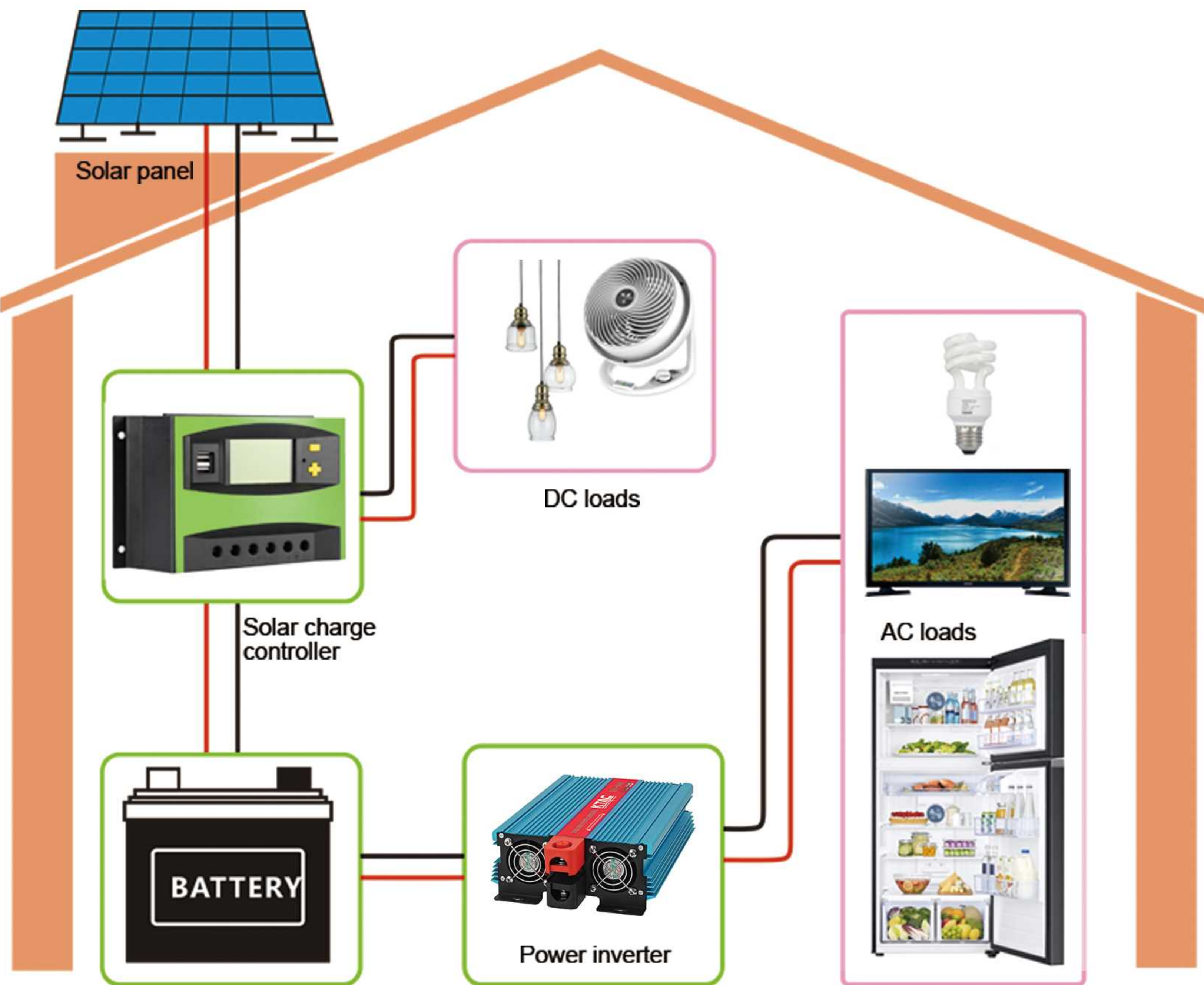


This inverter power supply offers an AC power solution where power outage occur or where AC power is not available, it converts 12V/24V/48V/60V/72V DC power to 110V/220V standard AC power, ideal use in vehicle, boats, vessels, and for home emergency power backup. Advanced MCU controlled integrated guarantees maximum efficiency and reliability.

- Digital LCD display
- 1500VA~5000VA, pure sine wave form output
- High quality anodized aluminum housing
- Full protection systems: Thermal protection, Overload protection, Over Voltage protection
- Reliable continuous long time performance
- Under Voltage protection, Low Voltage protection alarm



TYPICAL APPLICATION



MODEL	TDM-1500max	TDM-2000max	TDM-3000max	TDM-4000max	TDM-5000max
power capacity	3000VA/1500W	4000VA/2000W	6000VA/3000W	8000VA/4000W	10KVA/5000W
DC input					
input voltage		12VDC/24VDC/48VDC/60VDC/72VDC(factory set)			
Idle Current(@12V)	0.35A	0.5A	0.7A	0.8A	0.85A
Efficiency	85%	85%	85%	85%	85%
Input connector	Red and black DC input terminals				
AC output					
Output voltage	110V / 220VAC(factory set)				
Output voltage range	110V / 220VAC±10% (factory set)				
continuous power	1500W	2000W	3000W	4000W	5000W
Surge power	3000W	4000W	6000W	8000W	10000W
output wave form	Pure sine wave				
output frequency	50/60Hz ±3Hz (factory set)				
output receptacle	Multinational Socket available				
Protection					
input DC under voltage	9.5V±0.5VDC(12V) 20V±0.5VDC(24V) 40V±0.5VDC(48V) 50V±0.5VDC(60V) 60V±0.5VDC(72V)				
input DC over voltage	15.5V±0.5VDC(12V) 30V±0.5VDC(24V) 60V±0.5VDC(48V) 75V±0.5VDC(60V) 90V±0.5VDC(72V)				
overload	auto shut down				
DC polarity reverse	auto shut down				
short circuit	auto shut down				
over heat	auto shut down				
Audible Alarm	Yes				
Cooling	intelligent cooling fan				
Display & Indicator					
LCD Display		Battery Voltage, output voltage, frequency, Energy capacity, load capacity, Load power.			
Physical					
Case	anodized aluminum	anodized aluminum			
Dimensions(LXWXH)mm	355*172*70	355*172*70	425*172*70	355*172*132	355*172*132
Net Weight(kgs)	3.1	3.6	4.8	5.8	6.3

Ideally use for





PURE SINE WAVE INVERTER
PS-PRO SERIES



PURE SINE WAVE INVERTER PS-PRO 500-1500

This inverter power supply offers an AC power solution where power outage occur or where AC power is not available, it converts 12V/24V/48V DC power to 220V standard AC power, ideal use in vehicle, boats, vessels, and for home emergency power backup. Advanced MCU controlled integrated guarantees maximum efficiency and reliability.

- . Digital LCD display
- . 600VA~4000VA, pure sine wave form output
- . High quality anodized aluminum housing
- . Reliable continuous long time performance
- . Full protection systems: Thermal protection, Overload protection, Over Voltage protection, Under Voltage protection,Low Voltage protection alarm



Application
Scenario

- MEDICAL DEVICES
- INDUSTRIAL POWER SUPPLY
- TRANSPORTATION POWER SUPPLY
- RESIDENTIAL HOUSING AND COMMERCIAL OFFICE BUILDINGS

MODEL	PS-500PRO		PS-600PRO		PS-1200PRO		PS-1500PRO	
Power capacity	500VA		600VA		1200VA		1500VA	
DC input								
Input voltage	12VDC/24VDC/48VDC(factory set)							
Input voltage range	9~15VDC(for 12V standard)							
Idle Current(@12V)	0.2A							
Efficiency	>95%							
Input connector	Red and black DC input terminals							
AC output								
Output voltage	110V/120VAC/220VAC/230VAC(factory set) ±5%							
Continuous power	500W		600W		1200W		1500W	
Surge power	1000W		1200W		2400W		3000W	
Output wave	Pure Sine Wave							
THD	Total harmonic distortion ≤3%							
Output frequency	50/60 Hz±0.2% (Factory preset)							
Output receptacle	Multinational Socket							
Isolation strength	≧1500Vac/1min, Between input and output and the casing							
Protection								
DC under voltage protection	12V models: 9.0 V 24V models: 18.0V 48V models: 36.0V							
DC over voltage protection	12V models: 15.0V 24V models: 30.0V 48V models: 60.0V							
Overload	Error code E1, CPU controlled auto shut down							
DC polarity reverse	CPU controlled auto shut down							
Short circuit	Error code E11,CPU controlled auto shut down							
Over heat	Error code E3,CPU controlled auto shut down							
Audible Alarm	input DC under,over voltage, fault, overload, overheat							
Cooling	intelligent cooling fan							
Display & Indicator								
Indicator	LED indicator,Green LED glow if the device works properly, Red LED glow if the device is faulty or entering into protection mode.							
Displayer	Display input and output voltages							
Physical								
Case	high quality anodized aluminum							
Dimensions(mm)	150*325*73mm		150*325*73mm		284*160*83mm		335*155*73mm	
Net Weight	1.2KGS		1.3KGS		3.6KGS		3.8KGS	
Working temperature	-20℃~50℃							





(optional)



PURE SINE WAVE INVERTER PS-PRO 2000-3000

PS-PRO power inverter series is a highly reliable professional power inverter, it is designed based on the newest generation of SPWM pure sine wave topology with advanced CPU controlling, This inverter power supply offers an AC power solution where power outage occur or where AC power is not available, it converts 12V/24V/48V DC power to 110V/220V standard AC power, Built in high quality transformer and original branding power transistors guarantees its strong load capability. built-in heat sink instead of a housing based heat sink makes the inverter enclosure cool and touchable at any circuiumst-ances. with dynamic current control technology, the PS-pro delivers full power for continuous operation and 2 times surge power, which makes it an ideal inverter to power large refrigerator, air conditioner, micro oven, coffee machine, big capacity blender, ice maker machine, and power tools for Caravan and offroad living .



CAMPING



VAN



RV



YACHT

Application Scenario

- MEDICAL DEVICES
- INDUSTRIAL POWER SUPPLY
- TRANSPORTATION POWER SUPPLY
- RESIDENTIAL HOUSING AND COMMERCIAL OFFICE BUILDINGS

MODEL	PS-2000PRO	PS-2000PRO-RC	PS-3000PRO	PS-3000PRO-RC
Power capacity	2000VA	2000VA	3000VA	3000VA
DC input				
Input voltage	12VDC/24VDC/48VDC(factory set)			
Input voltage range	9~15VDC(for 12V standard)			
Idle Current(@12V)	0.20A	0.20A	0.30A	0.30A
Efficiency	>95%			
Input connector	Red and black DC input terminals			
AC output				
Output voltage	110VAC/120VAC/220VAC/230VAC(factory set) ±5%			
Continuous power	2000W	2000W	3000W	3000W
Surge power	4000W	4000W	6000W	6000W
Output wave	Pure Sine Wave			
THD	Total harmonic distortion ≤3%			
Output frequency	50/60 Hz±0.2% (Factory preset)			
Output receptacle	Universal Socket /German type/ Austrlia type			
Isolation strength	≧1500Vac/1min, Between input and output and the casing			
Remote Controller	N/A	YES	N/A	YES
Protection				
DC under voltage protection	12V models: 9.0 V 24V models: 18.0V 48V models: 36.0V			
DC over voltage protection	12V models: 15.0V 24V models: 30.0V 48V models: 60.0V			
Overload	Error code E1, CPU controlled auto shut down			
DC polarity reverse	CPU controlled auto shut down			
Short circuit	Error code E11,CPU controlled auto shut down			
Over heat	Error code E3,CPU controlled auto shut down			
Audible Alarm	input DC under,over voltage, fault, overload, overheat			
Cooling	intelligent cooling fan			
Display & Indicator				
Indicator	LED indicator,Green LED glow if the device works properly,			
Displayer	Display input and output voltages			
Physical				
Case	high quality anodized aluminum			
Dimensions(mm)	400*220*90	400*220*90	480*220*90	480*220*90
Net Weight	4.2kgs	4.5kgs	5.2kgs	5.5kgs
Working temperature	-20℃~50℃			





PURE SINE WAVE INVERTER
PS SERIES 600-6000



CAMPING



VAN



RV



YACHT

Application
Scenario

- MEDICAL DEVICES
- INDUSTRIAL POWER SUPPLY
- TRANSPORTATION POWER SUPPLY
- RESIDENTIAL HOUSING AND COMMERCIAL OFFICE BUILDINGS



PURE SINE WAVE INVERTER PS SERIES

This inverter power supply offers an AC power solution where power outage occur or where AC power is not available, it converts 12V/24V/48V DC power to 110V/220V standard AC power, ideal use in vehicle, boats, vessels, and for home emergency power backup. Advanced MCU controlled integrated guarantees maximum efficiency and reliability.

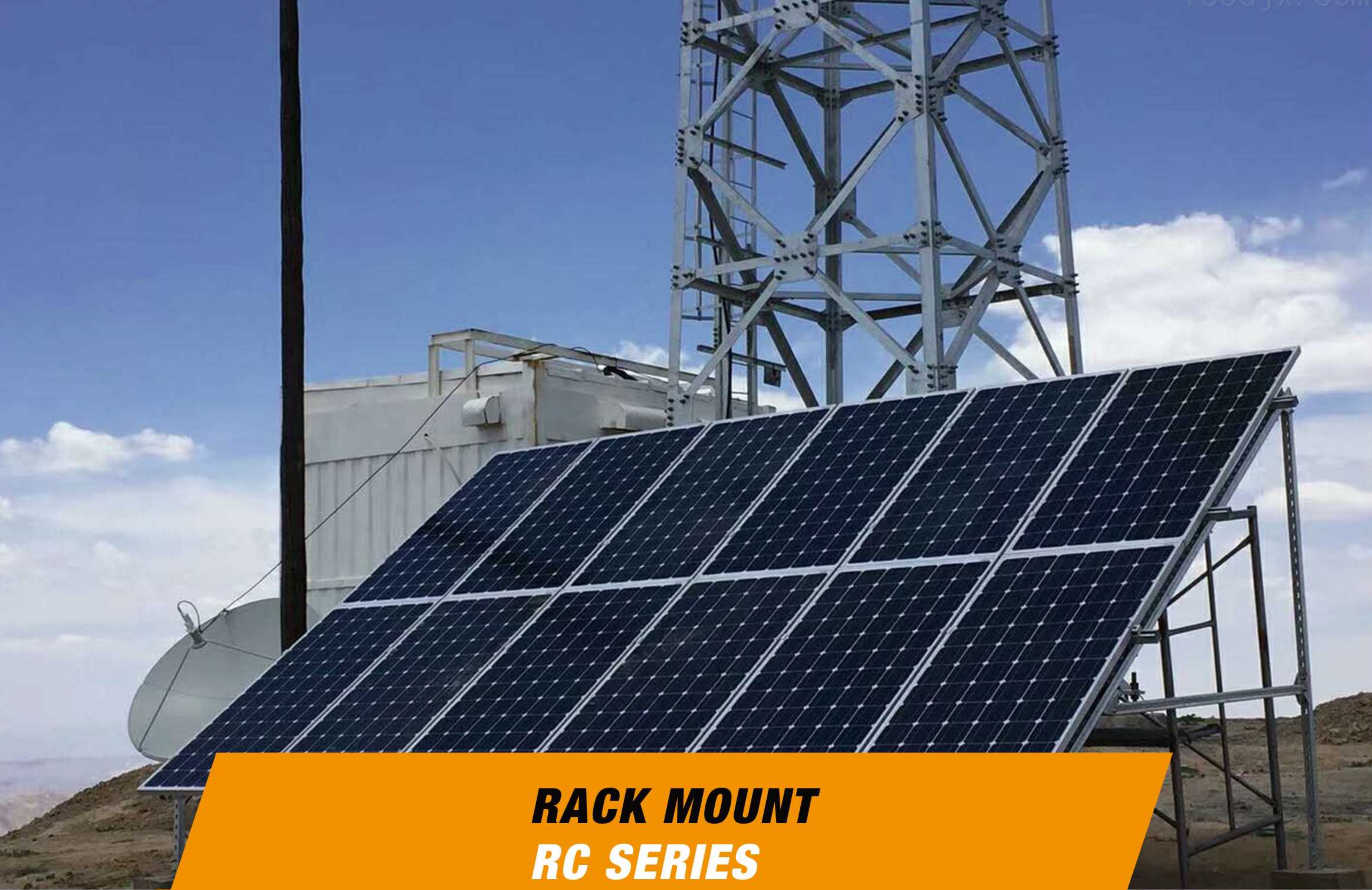
- Digital LCD display
- 500VA~5000VA, pure sine wave form output
- Full protection systems: Thermal protection, Overload protection, Over Voltage protection
- High quality anodized aluminum housing
- Reliable continuous long time performance
- Under Voltage protection, Low Voltage protection alarm



MODEL	PS-600	PS-1000	PS-1200	PS-1500	PS-2000	PS-2500	PS-3000	PS-4000	PS-5000	PS-6000
Power capacity	600VA	1000VA	1200VA	1500VA	2000VA	2500VA	3000VA	4000VA	5000VA	6000VA
DC input										
Input voltage	12VDC/24VDC/48VDC(factory set)							24VDC/48VDC(factory set)		
Input voltage range	9.6-15V(for 12V standard)							19.2-30V(for 24V standard)		
Idle Current(@12V)	0.61A	0.61A	0.61A	0.62A	0.63A	0.74A	0.74A	1.0A	1.2A	1.2A
Efficiency	90%									
Input connector	Red and black DC input terminals							Terminal Block		
AC output										
Output voltage	110VAC/220V/230VAC(factory set)							220V/230VAC(factory set)		
Continuous power	480W	800W	1000W	1200W	1600W	2000W	2400W	3200W	4000W	5000W
Surge power	960W	1600W	2000W	2400W	3200W	4000W	4800W	6400W	8000W	10000W
Output wave	Pure Sine Wave									
Output frequency	50/60Hz									
Output receptacle	Multinational Socket							Terminal Block		
Protection										
DC under voltage protection	10V±0.5VDC(for 12V standard)							20V±0.5VDC(for 24V standard)		
DC over voltage protection	15.5V±0.5VDC(for 12V standard)							20V±0.5VDC(for 24V standard)		
Overload	CPU controlled auto shut down									
DC polarity reverse	Fuse protection									
Short circuit	CPU controlled auto shut down									
Over heat	CPU controlled auto shut down									
Audible Alarm	input DC under,over voltage, fault, overload, overheat									
Cooling	intelligent cooling fan									
Display & Indicator										
Indicator	LED indicator,Green(or Blue) LED glow if the device works properly, Red LED glow if the device is faulty or entering into protection mode.									
LCD displayer	Display input and output voltages									
Physical										
Case	high quality anodized aluminum									
Dimensions(mm)	173*105*57	200*150*76	276*150*90	276*150*90	390*180*110	390*180*110	390*180*110	450*180*140	450*180*140	450*180*140

Ideally use for





RACK MOUNT
RC SERIES



RACK MOUNT RC SERIES

This rack mount power inverter is an electrical apparatus that provides emergency power to a load when the input power source or mains power fails. it is specially designed for telecom communication equipments and or commercial usage.applications.

- Standard 19" rack mount design.
- Advanced MCU control optimizes high efficiency and reliability.
- Power rating 1000VA to 6000VA.
- Pure sine wave form output, high efficiency up to 95%.
- Digital display or LCD display.
- RS232 and RS485 communication port.



Telecommunication
equipment



Air conditioner



Railway stations



Ships stations

Application
Scenario

- CABLE TERMINAL
- DATA SWITCHING EXCHANGE, TELEPHONE EXCHANGE
- SPC EXCHANGE
- RAILWAY STATIONS, POST STATION, AND SHIPS

MODEL	RC-1000VA	RC-2000VA	RC-3000VA	RC-3000VA	RC-4000VA	RC-5000VA	RC-6000VA
Power capacity	1000VA	2000VA	3000VA	3000VA	4000VA	5000VA	6000VA
DC input							
Input voltage	48VDC						
Input voltage range	40-60VDC						
Idle Current(@12V)	0.20A	0.4A	0.4A	0.4A	0.6A	0.8A	0.8A
Efficiency	>95%						
Input connector	Terminal block						
AC input							
Input voltage	110V/120VAC/220VAC/230VAC(factory set) ±25%						
Input frequency	50/60Hz Auto sensing, Acceptable frequency range :47Hz-65Hz						
Input Fuse	resettable circuit breaker				Circuit Breaker		
Charger	Smart multi-stage pulse charger 55V/5A,charge voltage adjustable for different batteries.						
AC output							
Output voltage	110V/120VAC/220VAC/230VAC(factory set) ±5%						
Rated power	800W	1600W	2400W	2400W	3200W	4000W	4800W
Output wave	Pure Sine Wave						
THD	Total harmonic distortion ≤3%						
Output frequency	50/60 Hz±0.2% (Factory preset)						
Output receptacle	IEC socket/ terminal block						
Protection							
Battery voltage protection	Under voltage protection: 40.0V over voltage protection: 60.0V						
Overload	Yes, CPU controlled auto shut down						
Short circuit	Yes,Circuit breaker trip off.						
Over heat	Yes, CPU controlled auto shut down						
Audible Alarm	input DC under,over voltage, fault, overload, overheat						
Cooling	intelligent cooling fan						
Displayer and indicators	LCD display shows input voltage, output voltage, frequency, and protection alarm.						
Communication	RS232 compactible with Upsilon 2000 monitoring software RS232-SNMP network card RS485 DB9 dry contact alarm.						
Physical							
Dimensions(mm)	440X300X44	440X430X88	440X430X88	440X430X88	440X430X88	440X430X88	440X520X88
Net Weight	4.6KGS	6.5KGS	8.5KGS	8.5KGS	12KGS	13KGS	15KGS
Working temperature	-20℃~50℃						

Ideally use for





This inverter power supply offers an AC power solution where power outage occur or where AC power is not available, it converts 12V/24V/48V DC power to 110V/220V standard AC power, ideal use in vehicle, boats, vessels, and for home emergency powerbackup. Its built-in UPS system automatically switch the inverter from AC bypass output to battery back up output.

- Advanced MCU controlled integrated guarantees maximum efficiency and reliability.
- Digital LCD display, 1000VA~4000VA, Pure sine wave form output
- UPS function, built-in automatic smart charger.
- High quality anodized aluminum housing
- Reliable continuous long time performance
- Full protection systems: Thermal protection, Overload protection, Over Voltage protection, Under Voltage protection, Low Voltage protection alarm



Application Scenario



Fan



Air Conditioner



Speaker



Refrigerator



TV Set



Water Pump



Washing Machine



Computer

MODEL	EPS-600	EPS-1000	EPS-1200	EPS-1500	EPS-2000	EPS-2500	EPS-3000	EPS-4000	EPS-5000
power capacity	600VA	1000VA	1200VA	1500VA	2000VA	2500VA	3000VA	4000VA	5000VA
DC input									
input voltage	12VDC/24VDC/48VDC(factory set)							24VDC/48VDC(factory set)	
input voltage range	9.6-15V(for 12V standard)							19.2-30V(for 24V standard)	
Idle Current(@12V)	0.61A	0.61A	0.61A	0.62A	0.63A	0.64A	0.68A	0.74A	0.8A
Input connector	Red and black DC input terminals							Terminal Block	
AC input									
input voltage range	90-140VAC/175-265VAC								
Input connector	Detachable power cord								
Charger	3 stage intelligent charger 22A maximum								
UPS transfer time	10 ms(typical)								
AC output									
Output voltage	120VAC/220VAC(factory set)								
continuous power	500W	800W	1000W	1200W	1600W	2000W	2400W	3200W	4000W
surge power	1000W	1600W	2000W	2400W	3200W	4000W	4800W	6400W	8000W
output wave	pure sine wave								
output frequency	50/60Hz								
output receptacle	Multinational Socket							Terminal Block	
Protection									
input DC under voltage	10V±0.5VDC(for 12V standard)							20V±0.5VDC(for 24V standard)	
input DC over voltage	15.5V±0.5VDC(for 12V standard)							20V±0.5VDC(for 24V standard)	
overload	CPU controlled auto shut down								
DC polarity reverse	fuse protection								
short circuit	CPU controlled auto shut down								
over heat	CPU controlled auto shut down								
Audible Alarm	input DC under/over voltage, fault, overload, overheat								
Cooling	intelligent cooling fan								
Display & Indicator									
Indicator	LED indicator, Green(or Blue) LED glow if the device works properly, Red LED glow if the device is faulty or entering into protection mode.								
LCD displayer	display input and output voltages								
Physical									
Case	high quality anodized aluminum								
Dimensions(mm)	250*150*76	300*150*76	300*150*90		415*180*110			475*180*140	
Net Weight(kgs)	1.5	3.8	3.8	3.8	6.1	6.5	6.5	8.5	8.5

Ideally use for





- Compact and portable
- 400VA~1000VA, modified sine wave form output
- Full protection systems: Thermal protection, Overload protection, Over Voltage protection, Under Voltage protection, Low Voltage protection alarm
- High quality anodized aluminum housing
- Reliable continuous long time performance



Ideally use for



Application Scenario

→ RESIDENTIAL HOUSING AND COMMERCIAL OFFICE BUILDINGS



- Compact and portable
- 600VA~1800VA, modified sine wave form output
- Full protection systems: Thermal protection, Overload protection, Over Voltage protection, Under Voltage protection, Low Voltage protection alarm
- High quality anodized aluminum housing
- Reliable continuous long time performance



- MEDICAL DEVICES
- INDUSTRIAL POWER SUPPLY
- TRANSPORTATION POWER SUPPLY
- RESIDENTIAL HOUSING AND COMMERCIAL OFFICE BUILDINGS

Ideally use for





MODIFIED SINE WAVE INVERTER
PI SERIES 1000-4000



CAMPING



VAN



RV



YACHT

Application
Scenario

- MEDICAL DEVICES
- INDUSTRIAL POWER SUPPLY
- TRANSPORTATION POWER SUPPLY
- RESIDENTIAL HOUSING AND COMMERCIAL OFFICE BUILDINGS



This inverter power supply offers an AC power solution where power outage occur or where AC power is not available, it converts 12V/24V/48V DC power to 110V/220V standard AC power, ideal use in vehicle, boats, vessels, and for home emergency powerbackup. Advanced MCU controlled integrated guarantees maximum efficiency and reliability.

- Digital LCD display
- 1000VA~4000VA, modified sine wave form output
- High quality anodized aluminum housing
- Full protection systems: Thermal protection, Overload protection, Over Voltage protection
- Reliable continuous long time performance
- Under Voltage protection, Low Voltage protection alarm



MODEL	PI-1000		PI-1500	PI-2000	PI-3000	PI-4000
power capacity	1000VA		1500VA	2000VA	3000VA	4000VA
DC input						
input voltage	12VDC/24VDC/48VDC/72VDC(factory set)					
input voltage range	9.6-15V(for 12V standard)					
Idle Current(@12V)	0.21A		0.43A	0.47A	0.54A	0.54A
Efficiency	90%		90%	90%	90%	90%
Input connector	Red and black DC input terminals					
AC output						
Output voltage	110V/220VAC(factory set)					
Output voltage range	110V/220VAC±10%					
continuous power	800W		1200W	1600W	2400W	3200W
surge power	1600W		2400W	3200W	4800W	6400W
output wave	Modified Sine Wave					
output frequency	50/60Hz					
output receptacle	Multinational Socket					
Protection						
input DC under voltage	10V±0.5VDC					
input DC over voltage	15.5V±0.5VDC					
overload	auto shut down					
DC polarity reverse	fuse protection					
short circuit	auto shut down					
over heat	auto shut down					
Audible Alarm	input DC under/over voltage, fault, overload, overheat					
Cooling	intelligent cooling fan					
Display & Indicator						
Indicator	LED indicator, Green LED glow if the device works properly, Red LED glow if the device is faulty or entering into protection mode.					
LCD displayer	digital LCD display(optional)					
Physical						
Case	anodized aluminum					
Dimensions(LXWXH)	200*150*90mm		276*150*76mm	276*150*90mm	276*150*90mm	276*150*90mm
Net Weight	1.5kgs		1.9kgs	2.5kgs	2.8kgs	4.8kgs

Ideally use for





PURE SINE WAVE HOME INVERTER
PSI 300-800



PURE SINE WAVE HOME INVERTER **PSI SERIES**

This inverter power supply offers an AC power solution where power outage occur or where AC power is not available, it converts 12V/24V/48VDC power (battery) to 110V/220V standard AC power, ideal use in vehicle, boats, vessels, and for home emergency deal for powering sensitive electronics such as laptops, smartphones, and medical equipment that require clean and stable power. These inverters are commonly used in off-grid solar systems, RVs, boats, and emergency backup power setups where a reliable and high-quality power supply is essential.



Application
Scenario

- MEDICAL DEVICES
- INDUSTRIAL POWER SUPPLY
- TRANSPORTATION POWER SUPPLY
- RESIDENTIAL HOUSING AND COMMERCIAL OFFICE BUILDINGS

MODEL	PSI-300	PSI-500	PSI-800
Power capacity	300W	500W	800W
DC input			
Input voltage	12VDC/24VDC/48VDC(factory set)		
Input voltage range	9.6-15V(for 12V standard)		
Idle Current(@12V)	0.2A	0.2A	0.3A
Efficiency	90%		
Input connector	Red and black DC input terminals		
AC output			
Output voltage	110VAC/220V/230VAC(factory set)		
Continuous power	300W	500W	800W
Surge power	600W	1000W	1600W
Output wave	Pure Sine Wave		
Output frequency	50/60Hz		
Output receptacle	Multinational Socket		
Protection			
DC under voltage protection	10V±0.5VDC(for 12V standard)		
DC over voltage protection	15.5V±0.5VDC(for 12V standard)		
Overload	CPU controlled auto shut down		
DC polarity reverse	Fuse protection		
Short circuit	CPU controlled auto shut down		
Over heat	CPU controlled auto shut down		
Audible Alarm	input DC under,over voltage, fault, overload, overheat		
Cooling	intelligent cooling fan		
Display & Indicator			
Indicator	LED indicator,Green(or Blue) LED glow if the device works properly, Red LED glow if the device is faulty or entering into protection mode.		
LCD displayer	Display input and output voltages		
Physical			
Case	high quality anodized aluminum		
Dimensions	170*112*55mm	180*112*55mm	215*112*55mm

Ideally use for



