

PS PLUS SERIES

Off Grid Solar Inverter



Features

- Pure sine wave inverter
- Built-in PWM solar charge controller
- Output power factor 1
- Selectable input voltage range for home use
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Parallel operation with up to 6 units available for 5KVA
- Cold start function

Solar System Connection



Overview



Product Data Sheet

MODEL	PS PLUS 1K -12	PS PLUS 1.5K-24	PS PLUS 3K-24	PS PLUS 5K-48
Rated Power	1000VA/1000W	1500VA/1500W	3000VA/3000W	5000VA/5000W
INPUT				
Voltage	230VAC			
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)			
Frequency Range	50Hz/60Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt.Mode)	230VAC±5%			
Surge power	2000VA	3000VA	6000VA	10000VA
Efficiency(Peak)	90%	93%	93%	93%
Transfer Time	10ms (for personal computers) 20ms (for home appliances)			
Wave form	Pure Sine Wave			
BATTERY & AC CHARGER				
Battery Voltage	12VDC	24VDC	24VDC	48VDC
Floating Charge Voltage	13.5VDC	27VDC	27VDC	54VDC
Overcharge Protection	15.0VDC	30VDC	30VDC	60VDC
Maximum charge current	10A/20A	20A/30A	20A/30A	10A/20A/30A/ 40A/50A/60A
SOLAR CHARGER & AC CHARGER				
Charging Current	50A			
Maximum PV Array Open Circuit Voltage	40VDC	80VDC	80VDC	105VDC
PV Range @ Operating Voltage	15-18VDC	30-32VDC	30-40VDC	60-105VDC
Standby Power Consumption	1W	2W	2W	3W
PHYSICAL				
Dimension.D*W*H(mm)	240*327.6*110	368*272*100	368*272*100	467.6*295*120
Net Weight (kgs)	4.5kg	5.5kg	6.9kg	9.8kg
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0°C to 55°C			
Storage Temperature	-15°C to 60°C			

Power Connection

Parallel operation with up to 6 units available for 5KVA model



Off Grid Solar Inverter

WIFI(optional)

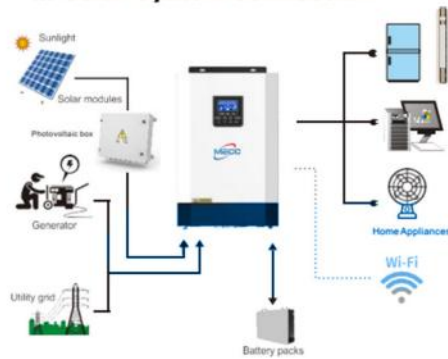
LCD remote control(optional)



Features

- Pure sine wave output
- Output power factor 1.0
- Programmable supply priority for PV, battery or Grid
- User-adjustable charge current and voltage
- Wide PV input range (120Vdc - 500Vdc), 110A MPPT SCC
- Working without batteries in sunny day
- WiFi Monitoring Function (optional)
- Anti-dusk kit for harsh environment (optional)
- LCD remote control with 5/10/20 meters wire (optional)
- PV and electricity complementary
- Use with lithium batteries
- Parallel operation up to 6 units

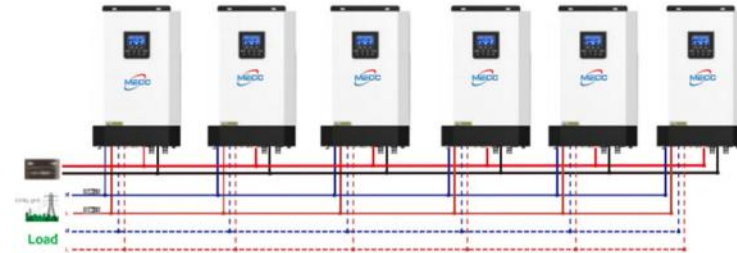
Solar System Connection



Overview



Parallel operation up to 6 units



Product Data Sheet










MODEL	WN-3500HP	WN-5500HP
Rated Power	3500VA/3500W	5500VA/5500W
INPUT		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)	
Frequency Range	50Hz/60Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt.Mode)	230VAC±5%	
Surge power	7000VA	11000VA
Efficiency(Peak) PV to INV	97%	
Efficiency(Peak) BAT to INV	94%	
Transfer Time	10ms (for personal computers) 20ms (for home appliances)	
Wave form	Pure Sine Wave	
BATTERY & AC CHARGER		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
Maximum charge current	80A	80A
SOLAR CHARGER		
MAX.PV Array Power	5000W	6000W
MPPT Range@ Operating Voltage	120-500VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charging Current	110A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension.D*W*H(mm)	472*297*129	
Net Weight (kgs)	9.5kg	10.5kg
Communication Interface	RS485/RS232(Standard) LCD remote/WIFI(Optional)	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C to 55°C	
Storage Temperature	-15°C to 60°C	

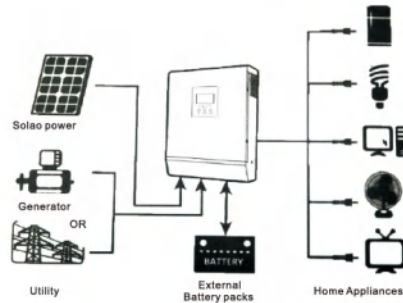


GA

Solar inverter

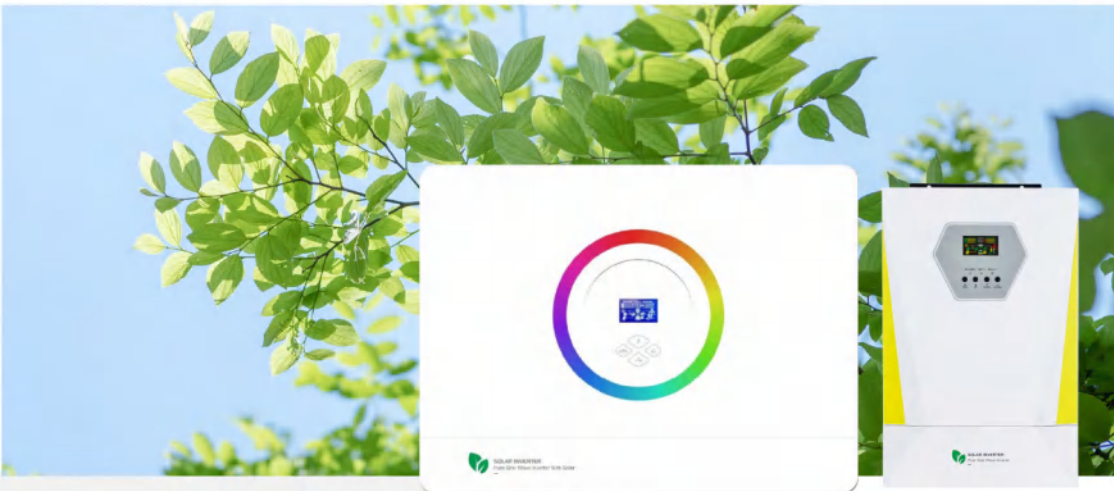
Application

-  High frequency inverter, lighter weight with higher efficiency
-  Output power factor PF=1
-  lithium battery activation start function with ac and solar mode
-  Parallel function to expansion power
-  Higher solar charging efficiency and battery protection
-  Pure sine wave output, adaptable to different loads
-  450V high PV input
-  Optional WIFI function
-  Working with or without battery



GA series High frequency inverter data sheet

Model	GA1012P	GA2024P	GA3024ML	GA3024MH
PV Input				
PV max input power	600W	1200W	1500W	3500W
MPPT voltage range	N/A	N/A	30~115Vdc	120~500Vdc
PV charging method	PWM*1	PWM*1	MPPT*1	MPPT*1
Max PV input voltage	55Vdc	80Vdc	145Vdc	450Vdc
Max PV charging current	50A	50A	60A	60A
Battery				
Rated voltage	12Vdc	24Vdc	24Vdc	24Vdc
Constant voltage charging voltage (Optional)	14.1Vdc	28.2Vdc	28.2Vdc	28.2Vdc
Floating charge voltage (Optional)	13.5Vdc	27Vdc	27Vdc	27Vdc
AC Input				
Phase	L+N+PE			
Nominal Voltage	208/220/230/240VAC			
Voltage Range	154-264VAC±3V (Normal Mode) 185-264VAC±3V (UPS Mode)			
Frequency Range	50Hz/60Hz(Adaptive)			
AC Output				
Rated Power	1000W	2000W	3000W	3000W
Max power	2000VA	4000VA	6000VA	6000VA
Output Voltage(AC)	208/220/230/240VAC±5%			
Max AC charging current	50A	50A	60A	60A
Output Frequency	50/60Hz±0.1%			
Waveform	Pure sine wave			
Transfer Time(Optional)	10ms for computer , 20ms for home appliances			
Overload	Battery Mode: 1min@102%~110% Load;10s@110%~130% Load;3s@130%~150% Load;200ms@>150% Load			
Peak efficiency (battery mode)	>93%	>93%	>94%	>94%
Display&Communication				
LCD display	Operating mode/load/input/output, etc.			
RS232	5PIN/Pitch2.0mm, baud rate 2400			
Expansion & configuration port	2×5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc.			
Parallel interface	No			YES
Operating environment temperature	0~40°C			
Operating environment humidity	20%~95% (Non condensing)			
Storage temperature	-15~60°C			
Altitude	The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040			
noise	≤50db			
Size L*W*H(mm)	490*312*125			
Weight(KG)	5.5	7.5	9.5	9.5
Certifications	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1			



GD/BA series High frequency inverter data sheet				
Model	GD3024ML	GD3024MH	GD5048MH	BA10048MH
PV Input				
PV max input power	1500W	3500W	5500W	5500W+5500W
MPPT voltage range	30~115Vdc	120~430Vdc	120~430Vdc	120~500Vdc
PV charging method	MPPT*1	MPPT*1	MPPT*1	MPPT*2
Max PV input voltage	145Vdc	450Vdc	450Vdc	450Vdc
Max PV charging current	60A	100A	100A	80A+80A
Battery				
Rated voltage	24Vdc	24Vdc	48Vdc	48Vdc
Constant voltage charging voltage (Optional)	28.2Vdc	28.2Vdc	56.4Vdc	56.4Vdc
Floating charge voltage (Optional)	27Vdc	27Vdc	54Vdc	54Vdc
AC Input				
Phase	L+N+PE			
Nominal Voltage	208/220/230/240VAC			
Voltage Range	154-264VAC±3V (Normal Mode) 185-264VAC±3V (UPS Mode)			
Frequency Range	50Hz/60Hz(Adaptive)			
AC Output				
Rated Power	3000W	3000W	5000W	10000W
Max power	6000VA	6000VA	10000VA	20000VA
Output Voltage(AC)	208/220/230/240VAC±5%			
Max AC charging current	60A	60A	100A	80A+80A
Output Frequency	50/60Hz±0.1%			
Waveform	Pure sine wave			
Transfer Time(Optional)	10ms for computer , 20ms for home appliances			
Overload	Battery Mode: 1min@102%~110% Load,10s@110%~130% Load,3s@130%~150% Load,200ms@>150% Load			
Peak efficiency (battery mode)	>94%	>94%	>94%	>94%
Display&Communication				
LCD display	Operating mode/load/input/output, etc.			
RS232	5PIN/Pitch2.0mm, baud rate 2400			
Expansion & configuration port	2×5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc.			
Parallel interface	No	YES	No	
Operating environment temperature	0~40°C			
Operating environment humidity	20%~95% (Non condensing)			
Storage temperature	-15~60°C			
Altitude	The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040			
noise	≤50db			
Size L*W*H(mm)	495*312*125			
Weight(KG)	9.5	9.5	12.5	21.5
Certifications	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1			

Solar inverter

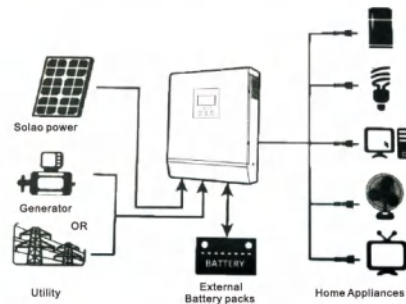
Application



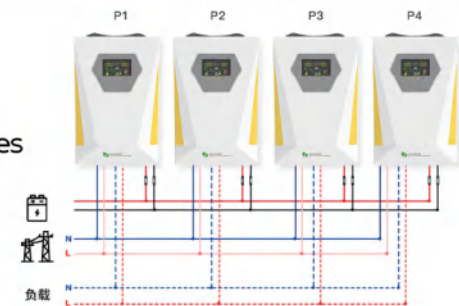
BA

- High frequency inverter, lighter weight with higher efficiency
- Output power factor PF=1
- lithium battery activation start function with ac and solar mode
- Parallel function to expansion power
- Higher solar charging efficiency and battery protection
- Pure sine wave output, adaptable to different loads
- 450V high PV input
- Optional WIFI function
- Working with or without battery

GD



Supports simultaneous expansion of multiple devices





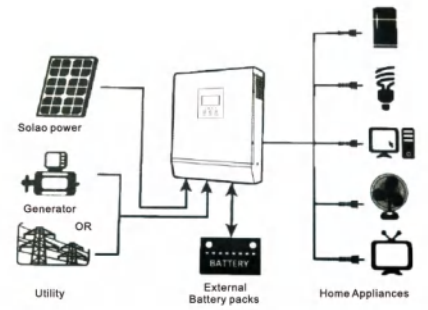
UD

Solar inverter

Application



- Pure sine wave output
- Optional MPPT/PWM solar charge controller 60A
- MPPT Efficiency max 98%
- DC Start & Automatic Self-Diagnostic Function
- High Efficiency Design & "Power Saving Mode" to Conserve Energy
- Auto restart when Ac in recovering
- Smart battery charger design for optimized battery performance
- Selectable charging current based on applications
- AC input/DC input/Solar input optional priority
- Auto Restart



UD/UE series Power Frequency Inverter data sheet						
Model	UD1012/24	UD1512/24	UD2012/24	UD3024/48	UD3824/48	UD5024/48
Capacity(VA)	1000VA	1500VA	2000VA	3000VA	3800VA	5000VA
Rated Power	800W	1200W	1600W	2400W	3000W	4000W
PV Input						
PWM controller Voltage	12V: 15VDC-30VDC; 24V: 30VDC-60VDC; 48V: 60V-105V					
MPPT controller Voltage	12V: 15VDC-150VDC; 24V: 30VDC-150VDC; 48V: 60V-150V					
Max PV array power	12V: 800W; 24V: 1600W; 48V: 3200W					
Max PV array open voltage	PWM 12V:30VDC, 24V:60VDC, 48V:105VDC / MPPT 150VDC					
Max solar charge current	60A					
Battery						
Input Voltage(DC)	12V	12V	12V	24V	24V/48V	24V/48V
Battery Type	AGM-Deep Cycle ,Gel/Up to 500Ah,Lithium battery					
Charging Current	25A	30A	40A	40A	35A/20A	53A/30A
Low Level disconnect (Selectable)	10V or 10.5V			20V or 21V		
AC Input/Output						
Nominal Voltage	220VAC					
Voltage Range	154-265VAC (AC Model);185-264VAC±3V(UPS Model)					
Frequency	50-60HZ Auto sensing					
Power Factor	0.8					
Voltage	220VAC					
Frequency	50/60HZ					
Waveform	Pure Sine Wave					
Transfer Time (AC to DC)	<8ms					
Transfer Time (DC to AC)	<8ms					
Output Voltage Regulation	±10%					
Bypass Mode	Yes					
Saver Mode	Yes					
Efficiency	>98%					
Input Protection	Circuit Breaker					
Output Protection	Circuit Breaker					
Display&Communication						
Protections	Over load, over temp, over charging, battery low, battery reverse connect, high AC voltage etc.					
LCD indicator status	AC input voltage, AC input frequency, PV voltage, PV current , Output Voltage, Output Frequency, Battery voltage, Load current etc.					
LED indicator status	AC Line In:Green/Inverter:Green/Charging :Yellow/Alarm :Red					
LOW battery alarm	Audible alarm-5 seconds beeping					
Overload alarm	Audible alarm- continuous beeping					
Fault	Audible alarm- continuous beeping					
Temperature	0-40°C					
Humidity	-10°C~90°C Non condensing					
Acoustic Noise(db)	>55dB					
Size L*W*H(mm)	470*335*210MM					
Weight (kg)	13	14.5	17	19.5	20.84	25.3








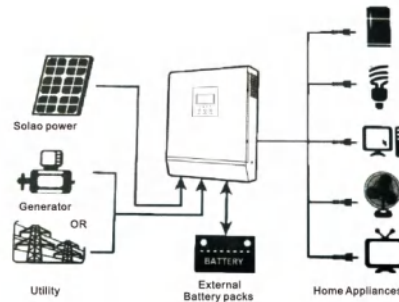
VT

Solar inverter

Application



-  Pure sine wave output
-  Optional MPPT/PWM solar charge controller 60A MPPT Efficiency max 98% DC Start & Automatic Self-Diagnostic
-  Smart battery charger design for optimized battery performance Selectable charging current based on applications AC input/DC input/Solar input optional priority
-  High Efficiency Design & "Power Saving Mode" to Conserve Energy Auto restart when Ac is recovering
-  Auto Restart VoltageT



VT series Power Frequency Inverter data sheet

Model	VT5024/48	VT6048	VT7048	VT8048	VT10048	VT12548	VT15048
Capacity(VA)	VT5000VA	VT6000VA	VT7000VA	VT8000VA	VT10000VA	VT12500VA	VT15000VA
Rated Power	4000W	4800W	5600W	6400W	8000W	10000W	12000W
PV Input							
PWM controller Voltage	24V: 30VDC-60VDC; 48V: 60V-105V						
MPPT controller Voltage	24V: 30VDC-150VDC; 48V: 60V-150V						
Maximum PV array power	12V: 1400W / 24V: 2800W					3400W	
Max PV array open voltage	PWM 24V:60VDC, 48V:105VDC / MPPT:150VDC						
Max solar charge current	60A						
Battery							
Voltage(DC)	24V/48V			48V			
Battery Type	AGM-Deep Cycle ,Gel/Up to 500Ah,Lithium battery						
Charging Current	55A/28A	30A	40A	45A	52A	55A	60A
Low Level disconnect (Selectable)	20V -22V/40V-44V					40V -42V	
AC Input/Output							
Nominal Voltage	220VAC						
Voltage Range	154-265VAC ;185-264VAC (selectable)						
Frequency	50-60HZ Auto sensing						
Power Factor	0.8						
Voltage	220VAC						
Frequency	50/60HZ						
Waveform	Pure Sine Wave						
Transfer Time (AC to DC)	<8ms						
Transfer Time(DC to AC)	<8ms						
Output Voltage Regulation	±10%						
Bypass Mode	Yes						
Saver Mode	Yes						
Efficiency	>98%						
Input Protection	Circuit Breaker						
Output Protection	Circuit Breaker						
Display&Communication							
Protections	Over load, over temp, over charging, battery low, battery reverse connect, high AC voltage etc.						
LCD indicator status	AC input voltage/input frequency, PV voltage, PV current , Output Voltage/Frequency, Battery voltage, Load current etc.						
LED indicator status	AC Line In:Green/Inverter:Red/Charging :Yellow/Alarm :Red						
LOW battery alarm	Audible alarm-5 seconds beeping						
Overload alarm	Audible alarm- continuous beeping						
Fault	Audible alarm- continuous beeping						
Temperature	0-60℃						
Humidity	-10℃-90℃ Non condensing						
Accoustic Noise(db)	>55dB						
Size L*W*H(mm)	470mm*335mm*210mm				720mm*335mm*210mm		
Weight (kg)	22	23	27	30	37	48.52	58.6

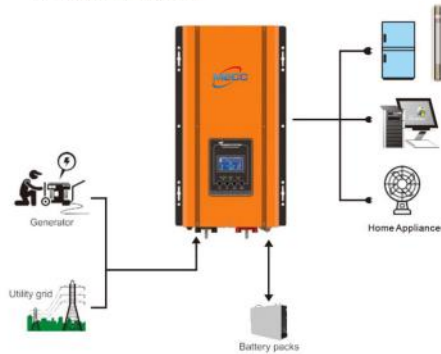
Power Inverter



Features

- Pure sine wave inverter
- Output power factor 1
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/battery input priority via LCD setting
- Compatible with generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Color LCD display
- Supports the use lithium batteries

Connection



Overview



Remote(optional)



Product Data Sheet

MODEL	WN 1000	WN 2000	WN3000	WN 4000	WN 5000	WN6000
Rated Power	1000W	2000W	3000W	4000W	5000W	6000W
INPUT						
Voltage	100/110/120Vac;220/230/240Vac					
Selectable Voltage Range	Wide Range :75vac~138Vac ;155Vac~275Vac(for home appliances) Narrow Range :82Vac~138Vac ;165Vac~275Vac(for personal computer)					
Frequency	40-70Hz (50Hz/60Hz)		100/110/120Vac(±5V);220/230/240Vac(±10V)			
OUTPUT						
AC Voltage Regulation(Batt Mode)	100/110/120Vac(±5V);220/230/240Vac(±10V)					
Surge Power	2000VA	4000VA	9000VA	12000VA	15000VA	18000VA
Efficiency(Peak)	88%		91%			
Transfer Time	<20ms		<10ms			
Waveform	Pure sine wave					
BATTERY						
Battery Voltage	12V	24V	12V/24V/48V	24V/48V	24V/48V	24V/48V
Charge Current	35A	35A	75A/50A/25A	70A/35A	75A/45A	75A/50A
Fast Charge Voltage	14.3VDC for 12V (*2 for 24V,*4 for 48V)					
Float Charge Voltage	13.7VDC for 12V (*2 for 24V,*4 for 48V)					
Battery Low Voltage Alarm	16.5VDC for 12V (*2 for 24V,*4 for 48V)					
Over Voltage Protect	10.5VDC for 12V (*2 for 24V,*4 for 48V)					
Battery Low Voltage Shutdown	10.0VDC for 12V (*2 for 24V,*4 for 48V)					
Protection	Over charging,over temp,over battery voltage,over load,short-circuit					
Operating Environment Temperature	55°C					
Cooling	Intelligent Fan					
Display	LCD					
Specification Setting	By LCD or position machine: Charging current,battery type,input voltage,output frequency,wide and narrow of AC input voltage,power-saver model,AC priority or battery priority					
PHYSICAL						
Dimension,(D*W*H)mm	390*221.6*178.5		495*257*192		607*345*198	
Net Weight (kgs)	11.4	15	25.2/24.6	34.4/33.8	37.9/38.2	41.6/40.5
ENVIROMENT						
Humidity	5~95% Relative humidity (No-condensing)					
Operating Temperature	-10~50°C					
Storage Temperature	-10~60°C					

WN SERIES

Solar Charge Controller



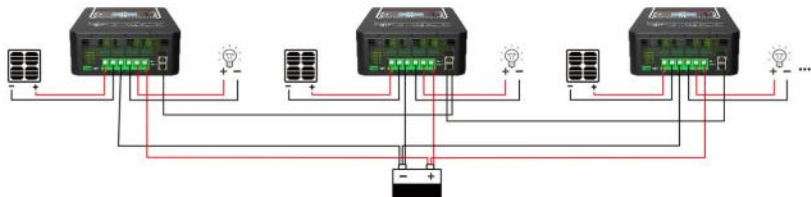
»» Features

- MPPT tracking efficiency can reach 99.9%
- Conversion efficiency $\geq 98\%$.
- Load Rated Current 25A.
- PV Wide Voltage Input (Prohibit DC power input).
- Automatic identification battery system.
- Supports multiple battery types.
- RS232/485 communication.
- Load overcurrent/short circuit/overtemperature protection.
- PV/BAT anti-reverse connection protection.
- TVS Lightning Protection.
- Supports the parallel use of multiple controllers.
- Fan cooling.

»» Overview



»» Parallel connection diagram



»» Product Data Sheet

MODEL	WN4880	WN48100
PV INPUT(PV)		
Maximum PV Voltage(VOC)	155V	
System Voltage	12V/24V/48V auto;36V set	
MPPT Voltage Range	Battery voltage+3V-120V	
Suggest Input VOC Voltage	PV array open circuit voltage 22V/40V/60V/80V for system 12V/24V/36V/48V	
Number Of MPPT Trackers	1	
MAX. PV INPUT POWER		
12V	1200W	1500W
24V	2400W	3000W
36V	3600W	4500W
48V	4800W	6000W
CHARGER OUTPUT(DC)		
Max.Output Current(revisable)	80A	100A
Rated Load Current	25A	
Max.Capacitive Load Capacity	10000uF	
Applicable Battery Type (ex-factory default lead-acid battery)	SLD (sealed lead-acid battery)/GEL (gelled lead-acid battery)/FLD (flooded lead-acid battery)/LFP(lithium iron phosphate battery). NCM(ternary lithium battery)/USE(customize)	
EFFICIENCY		
Max.Efficiency	<98%	
MPPT Efficiency	>99%	
PROTECTION		
Protect Function	Input highvoltage protection ,output high/low voltageprotection, PV/BAT anti-reverse connection protection, load over current protection,load short circuit protection, overtemperature protection, etc.	
REGULAR DATA		
Unloaded Loss	$\leq 2.3W$	
Operating Temperature	$-20^{\circ}C \sim +50^{\circ}C$	
Dimension.D*W*H(mm)	292*207*87mm	
Net Weight (kgs)	3.0kg	3.1kg
Elevation Height	0% to 95%(No condensat)	
Cooling Concept	Fan	
IP Rate	IP 20	
Communication Interface	RS232(Extensible interface)	



MPPT Charging



Multi-peak tracking



Automatic recognition



3-stage charging



Photovoltaic input 150 VOC



PC Communication



LCD Display



IP20

WN SERIES

Solar Charge Controller



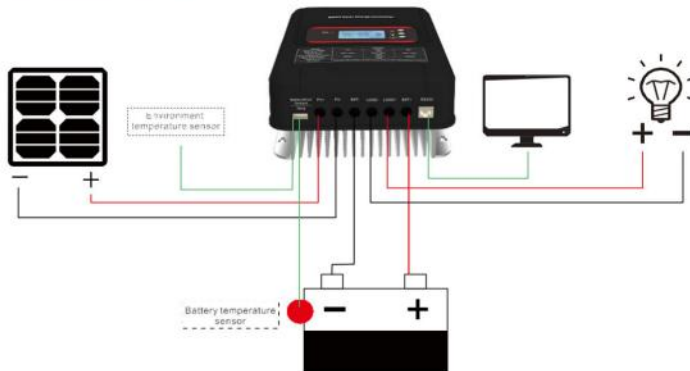
Features

- 12V / 24V / 36V / 48Vdc selectable
- 12 safety precautions
- Support Lithium battery
- Battery type selectable
- All kind of protections
- Charging current : 30A / 60A / 80A MPPT
- track efficiency can reach to 99.9% LED
- and LCD display show operation status

Overview



Solar System Connection



Product Data Sheet

MODEL	WN4830	WN4860
PV INPUT(PV)		
Maximum PV Voltage(VOC)	135V(-20°C)145V(25°C)	
System Voltage	12V/24V/48V auto;36V set	
MPPT Voltage Range	Battery voltage+3V-120V	
Suggest Input VOC Voltage	22V/40V/60V/80V	
Number Of MPPT Trackers	1	
MAX. PV INPUT POWER		
12V	400W	800W
24V	800W	1600W
36V	1200W	2400W
48V	1600W	3200W
CHARGER OUTPUT(DC)		
Max.Output Current(revisable)	30A	60A
Rated Load Current	20A	
Max.Capacitive Load Capacity	10000uF	
Ripper Voltage	<0.5%	
Applicable Battery Type (ex-factory default lead-acid battery)	Sealed lead-acid battery/Gel battery/Flooded battery/Tithium battery, other battery types can be customized	
EFFICIENCY		
Max.Efficiency	<98%	
MPPT Efficiency	>99%	
PROTECTION		
Protect function	PV input over voltage protection; PV input over current protection Output over voltage protection; output over voltage protection PV /battery anti-reverse protection; over temperature protection Battery low/high voltage protection; load over current protection Load short circuit	
REGULAR DATA		
Unloaded Loss	< 1.5W	
Operating Temperature	-20°C~+45°C	
Dimension.D*W*H(mm)	238*180*90mm	280*202*97mm
Net Weight (kgs)	2.3kg	3.6kg
Elevation Height	0% to 95%(No condensat)	
Cooling Concept	Natural	
IP Rate	IP 20	
Communication Interface	RS232(Extensible interface)	



MPPT

Multi-peak tracking

Automatic recognition

3-stage charging

Photovoltaic input 150VDC

PC Communication

LCD DISPLAY

IP20

WN-P

Hybrid Solar Inverter



Features

- Pure sine wave solar inverter(on/off Grid)
- Inverter running without battery
- Output power factor 1.0
- High PV input voltage range(90~500VDC)
- WIFI&GPRS available for IOS and Android
- Built-in anti-dusk kit for harsh environment
- Built-in 160A(for 7.2KW/8.2KW)/180A(for 10.2KW)MPPT solar charge
- Smart battery charge design to optimize battery life
- One-click restoration to factory Settings
- Dual output
- Built-in Lithium battery automatic activation
- Touch bottom

RGB lighting for different working mode



• RGB automatically switches with the working mode of the inverter:

- Battery mode: red;
- Utility mode: blue;
- PV mode: purple

- off grid
- hybrid
- on grid

Red-Battery Mode Blue-Utility Mode Purple-PV Mode

Overview



LCD DISPLAY



WIFI-APP

Product Data Sheet

MODEL	WN-P 7.2KW	WN-P 8.2KW	WN-P 10.2KW
Phase	1-phase		
Maximum PV Input Power	8200W	8200W	10200W
Rated Output Power	7200W/7200VA	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	160A	180A
GRID-TIE OPERATION			
PV Input(DC)			
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	90VDC~450VDC		
Number Of MPPT Trachers/Maximum Input Current	1/27A		
GRID OUTPUT(AC)			
Nominal Output Voltage	200/230/240VAC		
Output Voltage Range	195.5~253VAC		
Nominal Output Current	31.3A	35.6A	44.3A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
EFFICIENCY			
Maximum Conversion Efficiency(DC/AC)	98%		
TWO LOAD OUTPUT POWER(V2.0)			
Full Load	7200W	8200W	10200W
Maximum Main Load	7200W	8200W	10200W
Maximum Second Load(Battery mode)	2400W	2733W	3400W
Main Load Cut Off Voltage	44VDC	44VDC	44VDC
Main Load Return Voltage	48VDC	48VDC	48VDC
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140VAC / 180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	40A	40A	50A
Nominal Operating Frequency	50/60Hz		
Surge Power	14400W	16400W	20400W
PV INPUT(DC)			
Maximum DC Voltage	500VDC		
MPPT Voltage Range	90VDC~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
BATTERY MODE OUTPUT(AC)			
Nominal Output Voltage	48VDC	48VDC	48VDC
Output Waveform	Pure sinewave		
Efficiency(DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	48VDC	48VDC	48VDC
Maximum Solar Charging Range	160A	160A	180A
Maximum AC Charging Current	140A	140A	160A
PHYSICAL			
Dimension,D x W x H	537*390*130		
Net Weight(kgs)	14.2	14.2	14.5



SYP 5K-U

Solar storage inverter

Efficiency

- Advanced MPPT technology with up to 99.9% efficiency
- Up to 22A PV input current for high power PV module

Safety

- 360 degrees of security from hardware to software
- IEC safety approvals

All in one

- Solar charge controller up to 100A charging current

Reliable

- Outputs high quality pure sine wave AC power
- Up to 6 units in parallel connection meet the

User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

MODEL	SYP 5K-U	CAN BE SET
INVERTER OUTPUT		
Rated Output Power	5,000W	
Max.Peak Power	10,000VA	
Rated Output Voltage	120Vac (L/N/PE single-phase)	✓
Load Capacity of Motors	4HP	
Rated AC Frequency	50/60Hz	✓
Waveform	Pure sine wave	
Switch Time	10ms (typical)	
Parallel Capacity	1-6 units (single/split/three phase)	
BATTERY		
Battery Type	Li-ion / Lead-acid / user-define	✓
Rated Battery Voltage	48Vdc	
Voltage Range	40~60Vdc	✓
Max.MPPT Charging Current	100A	✓
Max.Mains/Generator Charging Current	40A	✓
Max.Hybrid Charging Current	100A	✓
PV INPUT		
Num. of MPP Trackers	1	
Max.PV array power	5,500W	
Max.input current	22A	
Max.Voltage of Open Circuit	500Vdc	
MPPT Voltage Range	120~450Vdc	
MAINS / GENERATOR INPUT		
Input Voltage Range	90~140Vac	
Frequency Range	50/60Hz	
Bypass Overload Current	63A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	92%	
GENERAL		
Dimensions	446.9*350*133mm	
Weight	13kg	
Protection Degree	IP20, indoor only	
Operating Temperature Range	-15-55°C	
Noise	<60dB	
Cooling Method	Intelligent fan	
Warranty	1 years	
COMMUNICATION		
Embedded Interfaces	RS485/CAN/USB/dry contact	✓
External Modules (Optional)	Wi-Fi/GPRS	✓
CERTIFICATION		
Safety	CE (IEC62109-1/2)	
EMC	EN61000	
RoHS	yes	



Inverter series



SPI series Solar storage inverter

SPI-8K-U SPI-10K-U

Efficient

- Dual MPPT with up to 99.9% efficiency
- Up to 22A PV input current perfect for high power modules

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Solar Charger Controller up to 200A charging current
- Support for Li-ion battery BMS communication

Reliable

- Outputs high quality pure sine wave AC power
- 8-10kW load power to meet the needs of most households

Safety

- 360 degrees of security from hardware to software
- EU and North American safety approvals

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley tariff

Application scenario



House



Farm



Telecom



Countryside



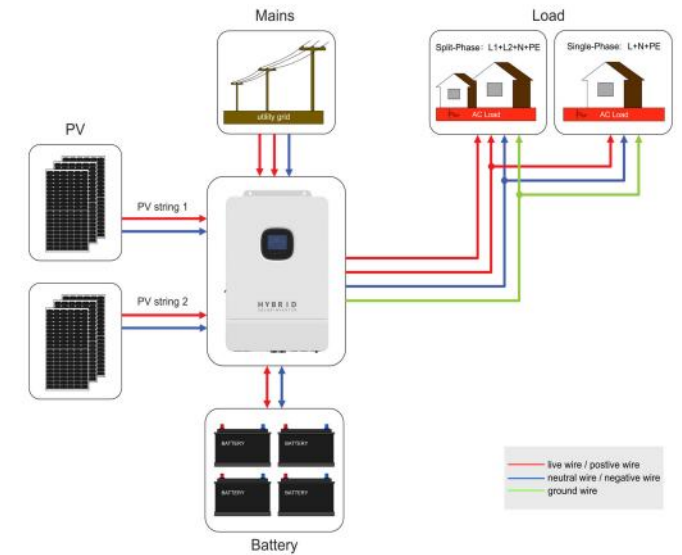
Island



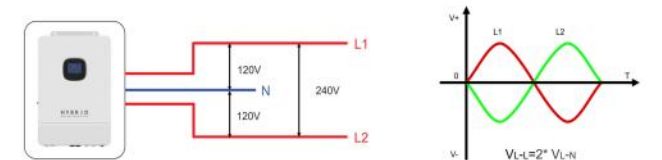
Pasture

MODEL	SPI-8K-U	SPI-10K-U	CAN BE SET
INVERTER			
Rated Output Power	8000W	10000W	
Max.Peak Power	16000W	20000W	
Rated Output Voltage	120/240Vac(L1,L2/N/PE split phase)		Y
Load Capacity of Motors	5HP	6HP	
Rated AC Frequency	50/60Hz		Y
Waveform	Pure Sine Wave		
Switch Time	10ms(typical)		
Parallel Capacity	/		
BATTERY			
Battery Type	Li-ion / Lead-Acid / User Defined		Y
Rated Battery Voltage	48Vdc		
Voltage Range	40-60Vdc		Y
Max.MPPT Charging Current	200A		Y
Max.Mains/Generator Charging	100A	120A	Y
Max.Hybrid Charging Current	160A	200A	Y
PV INPUT			
Num. of MPPT Trackers	2		
Max.PV Array Power	11000W		
Max.Input Current	22/22A		
Max.Voltage of Open Circuit	500Vdc		
MPPT Voltage Range	125-425Vdc		
UTILITY/ GENERATOR INPUT			
Input Voltage Range	90-140Vac		
Frequency Range	50/60Hz		
Bypass Overload Current	63A		
EFFICIENCY			
MPPT Tracking Efficiency	99.9%		
Max. Battery Inverter Efficiency	92%		
GENERAL			
Dimensions	620*435*130mm (2*1.4*0.4ft)		
Weight	27kg (59lb)		
Protection Degree	IP20, Indoor Only		
Operating Temperature Range	-10-55°C, >45°C derated		
Humidity	-25°C - 60°C		
Cooling Method	Internal Fan		
Warranty	1Years		
COMMUNICATION			
Embedded Interfaces	RS485/CAN/USB/ Dry contact		Y
External Modules (Optional)	Wi-Fi / GPRS		Y
CERTIFICATION			
Safety	IEC62109-1, IEC62109-2, UL1741		
RoHS	Yes		
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B		

Schematic Diagram



AC Output Voltage Range



Items	Description
Applicable Model	SPI series U model
Output Voltage Range (L-N)	100/120Vac, 120Vac default
Output Voltage Range (L-L)	200/240Vac, 240Vac default



HF series-LV

All in one solar charger

HF4835U80-145 HF2430U60-100
HF4830U60-145



/ Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge operating modes

/ Safety

- 360 degrees of security from hardware to software
- With IEC, SAA, cETL, FCC certification

/ all in one

- Support for many types of batteries
- Supports Li-Ion battery BMS communication

/ Reliable

- Outputs high-quality pure sine wave AC power
- Easy to install and simple to use

/ User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

/ Intelligent

- Exclusive Li-Ion battery BMS dual activation
- Support for remote monitoring of operating parameters

MODEL	HF4835U80-145	HF4830U60-145	HF2430U60-100	CAN BESET
INVERTER OUTPUT				
Rated Output Power	3,500W	3,000W	3,000W	
Max. Peak Power	6,000VA			
Rated Output Voltage	120Vac (L/N/PE single phase)			✓
Load Capacity of Motors	2HP			
Rated AC Frequency	50Hz/60Hz			
Waveform	Pure Sine Wave			
Switch Time	10ms (typical)			
BATTERY				
Battery Type	Li-Ion/Lead-Acid/User Defined			✓
Rated Battery Voltage	48Vdc		24Vdc	
Voltage Range	40-60Vdc		20-33Vdc	✓
Max. MPPT Charging Current	80A		60A	✓
Max. Mains/Generator Charging Current	40A			✓
Max. Hybrid Charging Current	120A		100A	✓
PV INPUT				
Num. of MPPT Trackers	1			
Max. PV Array Power	4,400W	3,400W	1,600W	
Max. Input Current	50A		40A	
Max. Voltage of Open Circuit	145Vdc		100Vdc	
MPPT Voltage Range	60-115Vdc		30-85Vdc	
MAINS/GENERATOR INPUT				
Input Voltage Range	90-140Vac			✓
Frequency Range	50Hz/60Hz			✓
Bypass Overload Current	40A			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Battery Inverter Efficiency	92%			
GENERAL				
Dimensions	426*322*124mm (1.3*1*0.4ft)	378*280*103mm (1.2*0.9*0.3ft)		
Weight	10.8kg (23.8lb)	6.2kg (13.6lb)	6.8kg (14.9lb)	
Protection Degree	IP20, Indor Only			
Operating Temperature Range	-15°C-55°C (5°F-55°F)			
Noise	<60dB			
Cooling Method	Internal Fan			
Warranty	1 Year			
COMMUNICATION				
Embedded Interfaces	RS485/CAN/USB/Dry contact			
External Modules (Optional)	Wi-Fi/GPRS			
CERTIFICATION				
Safety	IEC 62109, SAA, cETL UL1741&CSA C22.2			
EMC	EN61000, FCC Part15 ClassB	EN61000		
RoHS	Yes			



HF series-HV

All in one solar charger

Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

Safety

- 360 degrees of security from hardware to software
- With IEC, SAA, CETL, FCC certification

all in one

- Support for many types of batteries
- Supports Li-ion battery BMS communication

Reliable

- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power

User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating

Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

MODEL	HF4850U80-H	HF4835U60-H	HF2430U80-H	Can Be Set
INVERTER OUTPUT				
Rated Output Power	5,000W	3,500W	3,000W	
Max.Peak Power	10,000VA	7,000VA	6,000VA	
Rated Output Voltage	120Vac (L/N/PE single phase)			✓
Load Capacity of Motors	4HP	2HP	2HP	
Rated AC Frequency	50Hz/60Hz			✓
Waveform	Pure Sine Wave			
Switch Time	10ms (typical)			
BATTERY				
Battery Type	Li-ion/Lead-Acid/User Defined			✓
Rated Battery Voltage	48Vdc		24Vdc	
Voltage Range	40~60Vdc		20~33Vdc	✓
Max.MPPT Charging Current	80A	60A	80A	✓
Max.Mains/Generator Charging Current	40A			✓
Max.Hybrid Charging Current	80A			✓
PV INPUT				
Num. of MPPT Trackers	1			
Max.PV Array Power	5,200W	4,400W	4,000W	
Max.Input Current	18A		13A	
Max.Voltage of Open Circuit	500Vdc			
MPPT Voltage Range	120~450Vdc			
MAINS/GENERATOR INPUT				
Input Voltage Range	90~140Vac			✓
Frequency Range	50/60Hz			
Bypass Overload Current	40A	30A	40A	
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Battery Inverter Efficiency	92%			
GENERAL				
Dimensions	426*322*126mm		378*280*103mm	
Weight	10.9kg		8kg	
Protection Degree	IP20, only indoor			
Operating Temperature Range	-15°C~55°C			
Noise	<60dB			
Cooling Method	Internal Fan			
Warranty	1 year			
COMMUNICATION				
Embedded Interfaces	RS485 / CAN / USB / Dry contact			✓
External Modules (Optional)	Wi-Fi / GPRS			✓
CERTIFICATION				
Safety	CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.107.1)		CE(IEC 62109-1)/FCC/SAA	
EMC	EN61000		EN61000, C2	
RoHS	Yes			

Single- phase ESS hybrid inverter



Luxury villa



Communication base station






Nomadic farm



Residential electricity

Product features:

-  Supports automatic battery switching;
-  Support diesel generator input source;
-  Compatible with lead-acid and lithium-ion batteries;
-  Parallel available, intelligent BMS management;
-  Input power source priority can be set by users;
-  Battery reverse connection protection, anti-power control function;

REVO residential Energy Storage inverters



Technical specification	R3KL1	R3K6L1	R4KL1	R4K6L1	R5KL1	R6KL1
Input (PV)						
Max. power(kW)	4.6	4.6	6	6	7	
Max. DC voltage(V)	550					
MPPT voltage range(V)	125-500					
Max input current of single MPPT(A)	14					
MPPT tracker/strings	2/1					
AC output						
Rated output power(kVA)	3	3.6	4	4.6	5	6
Max. output current(A)	13	16	17.4	20	21.7	26
Grid voltage/range(V)	230/176-270					
Frequency (Hz)	50 /60					
PF	0.8lagging-0.8leading					
THDi	<3%					
AC output topology	L+N+PE					
Battery						
Battery voltage range(V)	40-58					
Max. charging voltage(V)	58					
Max. charge/discharge current(A)	95/62.2	95/75	95/83.3	95/95.8	95/104.2	95/110
Battery type	lithium / Lead-acid					
Communication interface	CAN/RS485					
EPS output						
Rated power (kVA)	3	3.6	4	4.6	5	6
Rated output voltage(V)	230					
Rated output current(A)	13	16	17.4	20	21.7	26
Rated frequency (Hz)	50 /60					
Automatic switching time (ms)	<20					
THDu	<2%					
Overload capacity	110%, 30S/120%, 10S/150%, 0.02S					
General data						
Battery charge/discharge efficiency	95.0%					
DC Max. efficiency	97.6%					
Europe efficiency	97.0%					
MPPT efficiency	99.9%					
Ingress protection	IP65					
Noise emission (dB)	<35					
Operation temperature	- 25°C~ 60°C					
Cooling	Natural					
Relative humidity	0 ~95% (non-condensing)					
Altitude	2,000m(>2,000 Derating)					
Dimensions W * D * H (mm)	550*200*515					
Weight (kg)	25					
Isolation transformer	No					
Self-consumption(W)	<3					
Display and communication						
Display	LCD					
Interface:RS485/Wifi/4G/CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes					
Safety standard	IEC/EN62109-1/-2, IEC/EN62477-1					
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3					
On-grid	South Africa NRS097-2-1:2017, UK G98,G99					

Three phase ESS hybrid inverter



Luxury villa



Communication base station



Nomadic farm



Residential electricity

Product features:

-  Compatible with lead-acid and lithium-ion batteries;
-  Support diesel generator input source;
-  IP65 protection, low noise < 35dB;
-  Battery reverse connection protection, anti-power control function
-  Input power source priority can be set by users;
-  Support full power discharge, automatic management of battery charge and discharge;

REVO residential Energy Storage inverters



Technical specification	R8KH3	R10KH3	R12KH3
Input (PV)			
Max.power(kW)	10.4	13	15.6
Max. DC voltage(V)		1,000	
MPPT voltage range(V)		180~850	
Max.input current of single MPPT(A)		12.5	
MPPT tracker/strings	2/1	2/1	2/1
AC output			
Max. output power(kVA)	8.8	11	13.2
Max. output current(A)	12.7	15.9	19.1
Grid voltage/range(V)		400/360~440	
Frequency (Hz)		50 /60	
Power factor		0.8lagging-0.8leading	
THDi		<3%	
AC output topology		3W+N+PE	
Battery			
Battery voltage range(V)		125~600	
Max. charging voltage(V)		600	
Full battery voltage(V)	210	270	250
Max. charge/discharge current(A)	40	40	50
Battery type		lithium / Lead-acid	
Communication Interface		CAN/RS485	
EPS output			
Rated power(kVA)	8.8	11	13.2
Rated output voltage(V)		400	
Max. output current(A)	12.7	15.9	19.1
Rated frequency(Hz)		50 /60	
Automatic switching time(ms)		<20	
THDu		<2%	
Overload capacity		110%, 30S/120%, 10S/150%, 0.02S	
General data			
Battery charge / discharge efficiency	96.6%	96.7%	96.8%
DC Max. efficiency	97.9%	98.2%	98.2%
Europe efficienc	97.2%	97.5%	97.5%
MPPT efficiency	99.5%	99.5%	99.5%
Ingress protection		IP65	
Noise emission(dB)		<35	
Operation temperature		-25℃~ 60℃	
Cooling		Natural	
Relative Humidity		0 ~95% (non-condensing)	
Altitude		2,000m (>2,000 Derating)	
Dimensions W * D * H (mm)		530*200*600	
Weight(kg)		29	
Isolation transformer		No	
Self-consumption(W)		<3	
Display and communication			
Display		LCD	
Interface:RS485/Wifi/4G/ CANDRM		Yes/ Opt/ Opt/ Yes/ Yes	
Safety standard		IEC/EN62109-1/-2, IEC/EN62477-1	
EMC		IEC/EN 61000-6-1, IEC/EN 61000-6-3	
On-grid		Europe: EN50549-1, Germany: VDE4105/0124, UK: G99, South Africa: NRS097-2-1:2017	

American ESS split- phase inverter (battery voltage:48V)



Luxury villa



Communication base station



Nomadic farm



Residential electricity

Product features:

- Support Parallel available;
- Bypass current capacity up to 100A;
- Support 100% unbalanced load capacity;
- UL certification;

REVO residential Energy Storage inverters



Technical specification	R5KLNA	R6KLNA	R8KLNA	R10KLNA
Input (PV)				
Max. power(kW)	7.5	9	12	13
Max. DC voltage (V)	500			
MPPT voltage range(V)	120-500			
Max.Input current of single MPPT(A)	12			
MPPT tracker/strings	4/1			
AC output				
Rated output power(kVA)	5	6	8	10
Max. output current(A)	24	28.8	38.3	47.8
Ac output voltage(V)	120/240(split phase), 208(2/3 phase),230 (single phase)			
Frequency (Hz)	50/60			
PF	0.8lagging-0.8leading			
THDI	< 3%			
AC output topology	Split phase, 2/3 phase, single phase			
Battery				
Battery voltage range(V)	40-58			
Max. charging voltage(V)	58			
Max. charge/discharge current(A)	120/120	135/135	190/190	210/210
Battery type	lithium /Lead-acid			
Communication interface	CAN/RS485			
EPS output				
Rated power(kVA)	5	6	8	10
Rated output voltage(V)	120/240 (split phase), 208 (2/3 phase),230 (single phase)			
Rated output current(A)	24	28.8	38.3	47.8
Rated frequency(Hz)	50/60			
Automatic switching time(ms)	< 20			
THDu	< 2%			
Overload capacity	125%,60S/150%,1S			
General data				
Max. efficiency	≥98.2%			
North american efficiency	≥97.2%			
Ingress protection	IP65/NEMA 3R			
Noise emission(dB)	<25	<29	<29	<29
Operation temperature	-25°C ~ 60°C			
Cooling	Natural			
Relative humidity	0 ~ 95% (non-condensing)			
Altitude	2,000m(>2,000 Derating)			
Dimensions W *D *H (mm)	430*220*710			
Weight(kg)	41			
Isolation transformer	No			
Self-consumption(W)	<3			
Display and communication				
Display	LCD, touch screen			
Interface:RS485/Wifi/4G/CAN/DRM	Yes			
Safety standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III,NRS			

American ESS split- phase inverter (battery voltage > 80V)



Luxury villa



Communication base station



Nomadic farm



Residential electricity

Product features:

-  Support 100% unbalanced load capacity;
-  Battery reverse connection protection;
-  Compatible with lead-acid and lithium ion batteries and other battery access;
-  Anti-power control function;
-  Support full power discharge, automatic management of battery charge and discharge;
-  UL certification;

REVO residential Energy Storage inverters



Technical specification	R6KH1NA	R8KH1NA	R10KH1NA	R12KH1NA
Input (PV)				
Max. power(kW)	7.8	10.4	13	15.6
Max. DC voltage(V)	500			
MPPT voltage range(V)	125-500			
Max.Input current of single MPPT(A)	12			
MPPT tracker/strings	4/1			
AC output				
Rated output power(kVA)	6	8	10	12
Max. output current(A)	27.3	36.4	45.4	50
Grid voltage(range)(V)	240/211~264			
Frequency (Hz)	50/60			
PF	0.8lagging-0.8leading			
THDi	< 3%			
AC output topology	L+N+PE			
Battery				
Battery voltage range(V)	85~400			
Max. charging voltage(V)	400			
Full battery voltage(V)	85	110	140	160
Max. charge/discharge current(A)	80/80			
Battery type	lithium / Lead-acid			
Communication Interface	CAN,RS485			
EPS output				
Rated power(kVA)	6	8	10	12
Rated output voltage(V)	220-240 /110-120			
Rated frequency(Hz)	50/60			
Automatic switching time(ms)	<20			
THDu	< 2%			
Overload capacity	110%,30S/120%,10S/150%,0.02S			
General data				
Max. efficiency	≥98.2%			
CEC efficiency	≥97.2%			
Ingress protection	IP65/NEMA 3R			
Noise emission(dB)	<25	<25	<29	<29
Operation temperature	-25°C~60°C			
Cooling	Natural			
Relative humidity	0 ~ 95% (non-condensing)			
Altitude	2,000m(>2,000 Derating)			
Weight(kg)	32			
Dimensions W * D * H (mm)	530* 200* 660			
Display and communication				
Display	LCD			
Interface:RS485/Wifi/4G/CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes			
Standby power consumption at night(W)	< 2.5 (With the battery < 5)			
Isolation transformer	Yes			
Safety standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III			

- High safety, long life: the selection of high consistency, safety and reliability of lithium iron phosphate batteries;
- With methods of mains power bypass, inverter output, photovoltaic power generation, etc., and has the function of uninterrupted power supply;
- Four charging modes: Solar mode, Priority power frequency AC, Priority solar, hybrid charging;
- Communication support CAN, RS485, RS232;
- Integrated design of battery and inverter module, the product is beautiful and green environmental protection, non-toxic and non-polluting.
- Complete short circuit protection, over-undervoltage protection, overload protection, back-irrigation protection and many other protection functions;



Household light storage integrated machine

Product model	MECC-ESS-BP100S16-F
Cell type	EVE-LFP square battery cell-3.2V100Ah
Rated capacity	100Ah
Rated total energy	5.12kWh
Rated voltage	51.2V
Voltage range	43.2-58.4V
Photovoltaic power generation parameters	
Maximum output power	5000W
MPPT voltage range	120-500V
Solar charging current	0-80A
AC parameters	
Rated output power	5000W
Rated output voltage	230Vac (200/208/220/240Vac) ±5%
Output frequency range	50Hz ± 0.3Hz /60Hz ±0.3 Hz
Efficiency	input>95%, output>90%
System parameters	
Weight	51kg
Size (height * width * depth)	850*480*160mm
Protection class	IP54
Cooling mode	Forced air cooling
Ambient temperature	Charge:0°C-55°C/Discharge:-20°C~60°C/Storage:-10°C-45°C/
Operating humidity	5-95%, relative humidity
Installation mode	Wall-mounted
Communication methods	CAN, RS485/wifi/GPRS
CERTIFICATION	UN38.3 \MSDS\CE

- High safety, long life: the selection of high consistency, safety and reliability of lithium iron phosphate batteries;
- With methods of mains power bypass, inverter output, photovoltaic power generation, etc., and has the function of uninterrupted power supply;
- Four charging modes: Solar mode, Priority power frequency AC, Priority solar, hybrid charging;
- Communication support CAN, RS485, RS232;
- Integrated design of battery and inverter module, the product is beautiful and green environmental protection, non-toxic and non-polluting.
- Complete short circuit protection, over-undervoltage protection, overload protection, back-irrigation protection and many other protection functions;



Household light storage integrated machine

Product model	MECC-ESS-BP200S16-F
Cell type	EVE-LFP square battery cell-3.2V100Ah
Rated capacity	200Ah
Rated total energy	10.24kWh
Rated voltage	51.2V
Voltage range	43.2~58.4V
Photovoltaic power generation parameters	
Maximum output power	5000W
MPPT voltage range	120~500V
Solar charging current	0~80A
AC parameters	
Rated output power	5000W
Rated output voltage	230Vac (200/208/220/240Vac) ±5%
Output frequency range	50Hz ± 0.3Hz /60Hz ±0.3 Hz
Efficiency	input>95%, output>90%
System parameters	
Weight	90kg
Size (height * width * depth)	1120*480*180mm
Protection class	IP54
Cooling mode	Forced air cooling
Ambient temperature	Charge:0°C~55°C/Discharge:-20°C~60°C/Storage:-10°C~45°C/
Operating humidity	5~95%, relative humidity
Installation mode	Wall-mounted
Communication methods	CAN, RS485/wifi/GPRS
CERTIFICATION	UN38.3 VMSDS/CE