

OFF GRID SOLAR INVERTER

MPS-H SERIES

Off Grid Solar Inverter

WiFi(optional)

LCD remote control(optional)

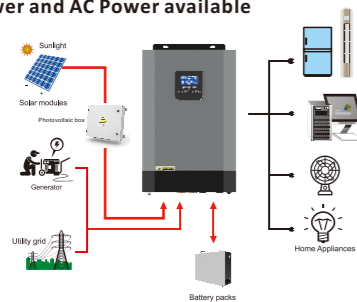


Features

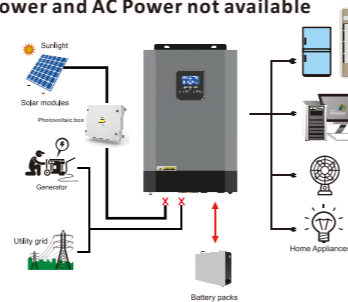
- Pure sine wave output
- Output power factor 1.0
- Programmable supply priority for PV, battery or Grid
- User-adjustable charge current and voltage
- Wide PV input range (120Vdc -500Vdc),110A MPPT SCC
- Use with lithium batteries
- Working without batteries in sunny day
- WiFi Monitoring Function (optional)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

Solar System Connection

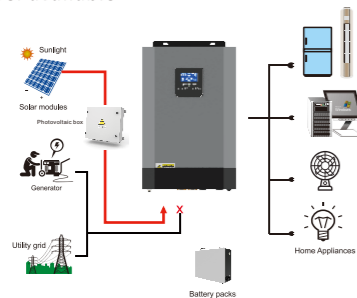
■ Operation with battery connected
Solar Power and AC Power available



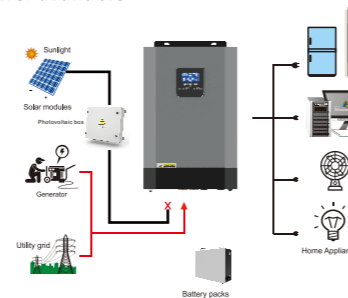
Solar Power and AC Power not available



■ Operation without battery connected
Solar Power available



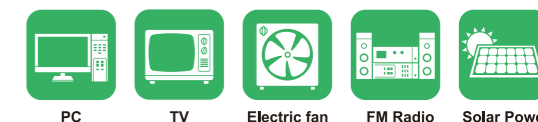
AC Power available



Product Data Sheet

MODEL	MPS-3500H	MPS-5500H
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	31VDC	61VDC
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*298*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	

High Frequency Solar Inverter



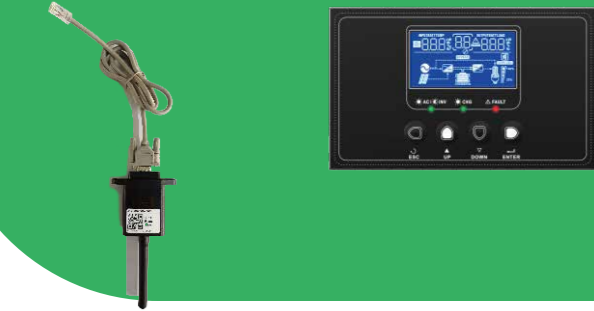
OFF GRID SOLAR INVERTER

MPS-HP SERIES

Off Grid Solar Inverter

WIFI(optional)

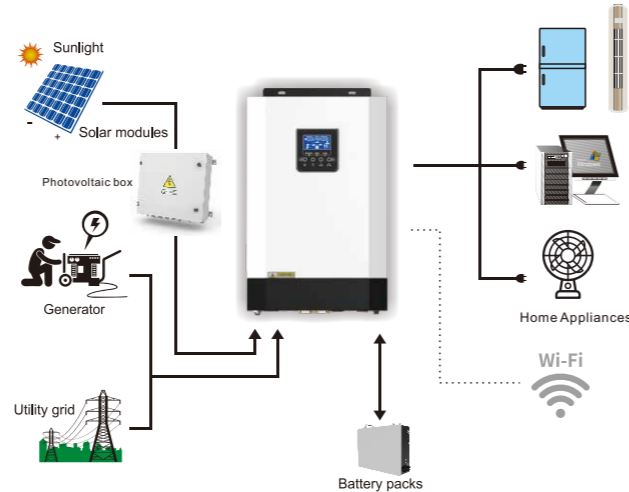
LCD remote control(optional)



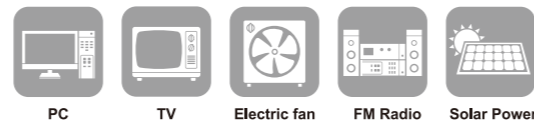
»» Features

- 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	MPS-3500HP	MPS-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	31VDC	61VDC
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*298*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	

OFF GRID SOLAR INVERTER

MPS-H PRO SERIES

Off Grid Solar Inverter

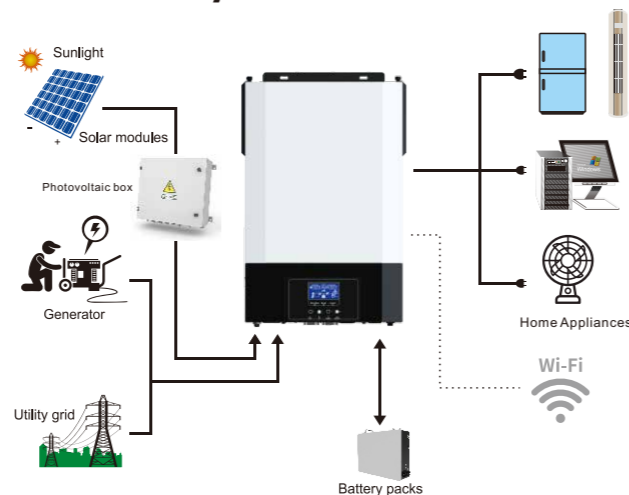
WiFi(optional)



»» 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
- Remove LCD

»» Solar System Connection



»» Overview



»» Product Data Sheet

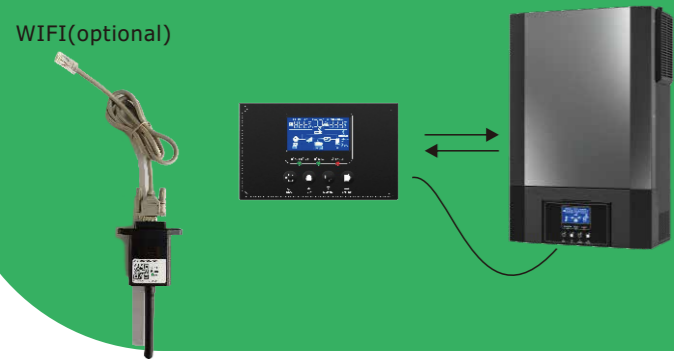
MODEL	MPS-3500H PRO	MPS-5500H PRO
Rated Power	3500VA/3500W	5500VA/5500W
INPUT		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)	
Frequency Range	50Hz/60Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt.Mode)	230VAC±5%	
Surge power	7000VA	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	31VDC	61VDC
Maximum charge current	80A	80A
SOLAR CHARGER		
MAX.PV Array Power	5000W	6000W
MPPT Range@ Operating Voltage	120-450VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charging Current	110A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension.D*W*H(mm)	472*298*143	
Net Weight (kgs)	10.1	11.1
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	

OFF GRID SOLAR INVERTER

MPS-HP PRO SERIES

Off Grid Solar Inverter

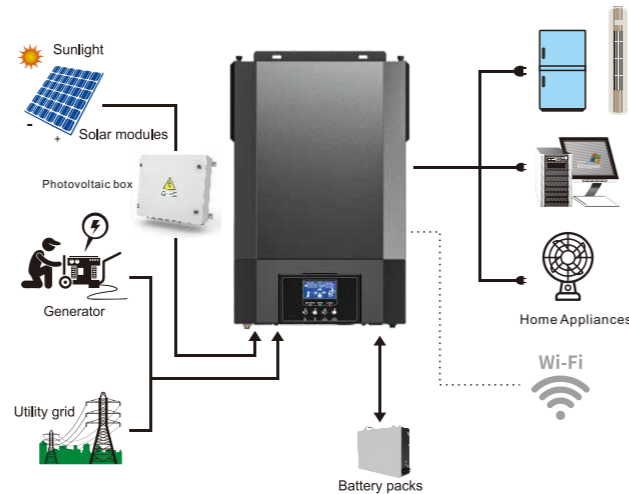
WiFi(optional)



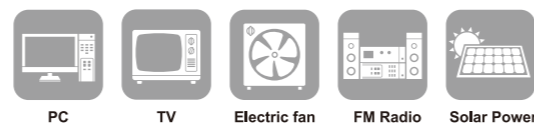
»» Features

- 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
- Remove LCD
- Parallel operation up to 6 units

»» Solar System Connection



»» Overview



Parallel operation up to 6 units



»» Product Data Sheet

MODEL	MPS-3500HP PRO	MPS-5500HP PRO
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	31VDC	61VDC
Maximum charge current	80A	80A
SOLAR CHARGER		
MAX.PV Array Power	5000W	6000W
MPPT Range@ Operating Voltage	120-450VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charging Current	110A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension.D*W*H(mm)	472*298*143	
Net Weight (kgs)	10.1	11.1
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	

ON/OFF GRID SOLAR INVERTER

MPS-VX SERIES

ON/OFF Grid Solar Inverter

WiFi(optional)

LCD remote control(optional)

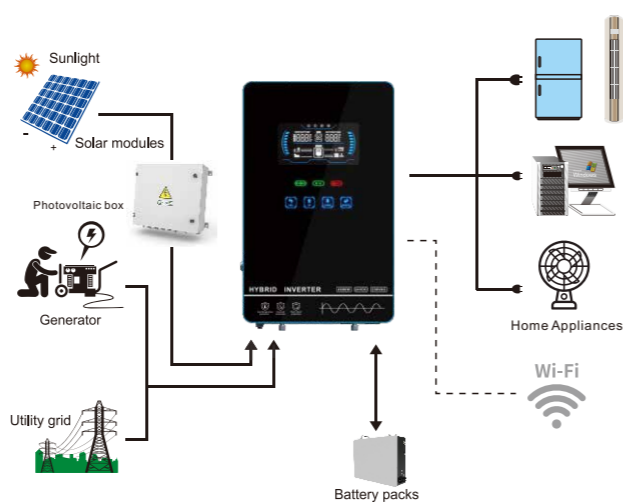


- Silent Fan
- 150A MPPT SCC
- 6.25inch LCD Display
- Touchable Button
- Tempered glass upper cover
- WiFi (optional)
- Pure sine wave
- SBU Mode
- Can adjust ac voltage
- Works With and Without battery

»» Features

- On/Off Grid Solar Inverter
- Working without batteries in sunny day
- Under Battery Mode can adjust ac voltage to 110vac or 220vac
- SBU Mode : Utility Power, battery and PV Power complement each other
- Pure sine wave solar inverter
- Unique glass top cover design with 6.25inch LCD display and touchable buttons
- Built-in 150A MPPT (Max PV 8000W) solar charger
- High PV input range from 55V-450Vdc
- Smart battery charger design for optimized battery performance
- Configurable AC/Battery input priority via LCD setting
- Auto restart while PV is recovering
- Over-load, over temperature and output short circuit protection
- Cold restart function
- Built-in lithium battery automatic activation
- Communication with RS232/RS485
- WiFi monitoring function (optional)
- Anti-dust kit for harsh environment(optional)
- Restore default Settings with one click

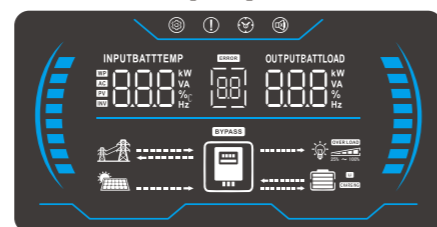
»» Solar System Connection



»» Overview



»» LCD Display



»» Product Data Sheet

MODEL	MPS-VX 4.5KW	MPS-VX 6.5KW
Rated Power	4500W	6500W
INPUT		
Voltage	230VAC	
Selectable Voltage Range	175-265VAC(for personal computers) 90-265VAC(for home appliances)	
Frequency Range	50Hz/60Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt.Mode)	230VAC±5%	
Surge power	2* rated power for 5 seconds	
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
Bulk Charging Voltage	Flooded Battery	29.2VDC
	AGM/GEL Battery	28.2VDC
Floating Charge Voltage	27.6VDC	54VDC
Overcharge Protection	32VDC	63VDC
Maximum charge current	140A	110A
SOLAR CHARGER		
MAX.PV Array Power	7200W	7200W
MPPT Range@ Operating Voltage	55-450VDC	
Maximum PV Array Open Circuit Voltage	450VDC	
Maximum Charging Current	150A	130A
Maximum Efficiency	99%	
GRID-TIE OPERATION		
PV INPUT(DC)	55-450Vdc	
Nominal DC Voltage/MAXimum DC Volatge	360Vdc/450Vdc	
Start-up Voltage/Initial Feeding Voltage	55Vdc	
MPPT Voltage Range	55Vdc-360Vdc	
Number of MPPT Trackers/Maximum Input Current	1/20A	
GRID OUTPUT(AC)		
Nominal Output Voltage	230Vac	
Output Voltage Range	176V-264V	
Nominal Output Current	19.5A	28.2A
Power Factor	>0.99	
Feed-in Grid Frequency Range	49~51+1Hz	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	98%	
MPPT Efficiency	99.90%	
PHYSICAL		
Dimension.D*W*H(mm)	400*250*89mm	
Net Weight (kgs)	7.5kg	8.5kg
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	

ON/OFF GRID SOLAR INVERTER

MPS-V MAX SERIES

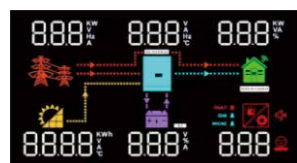
On/Off Grid Solar Inverter



Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 160A MPPT solar charger (for 8.2kw,10.2kw),140A(for 7.2kw)
- High PV input voltage range(90~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Dual PV input
- Touch button
- On Off Grid Work Mode

Overview



LCD Display



Dual PV LCD Display

Product Data Sheet

MODEL	MPS-V MAX 7.2KW	MPS-V MAX 8.2KW		MPS-V MAX 10.2KW	
Phase	1-phase				
Maximum PV Input Power	8200W	8200W	5400W+5400W	10200W	5400W+5400W
Rated Output Power	7200W/7200VA	8200W/8200VA		10200W/10200VA	
Maximum Solar Charging Current	140A	160A		160A	
GRID-TIE OPERATION					
PV INPUT (DC)					
Nominal DC Voltage/Maximum DC Voltage	360/500VDC				
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC				
MPPT Voltage Range	90~450VDC				
Maximum Input Current	1/23A	1/23A	2/18A	1/23A	2/18A

GRID OUTPUT (AC)					
Nominal Output Voltage	220/230/240VAC				
Output Voltage Range	190~253VDC				
Nominal Output Current	31.3A	35.6A		44.3A	
Power Factor	>0.99				
EFFICIENCY					
Maximum Conversion Efficiency (DC/AC)	98%				
TWO LOAD OUTPUT POWER					
Full Load	7200W	8200W	10200W		
Maxium Main Load	7200W	8200W	10200W		
Maxium Second Load(battery mode)	2400W	2733W	3400W		
Maxium Load Cut Off Voltage	52VDC	52VDC	52VDC		
Maxium Load Return Voltage	54VDC	54VDC	54VDC		
OFF-GRID OPERATION					
AC INPUT					
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC				
Acceptable Input Voltage Range	90-280VACor170-280VAC				
Frequency Range	49~51±1HZ				
Maximum AC Input Current	40A	40A	50A		
PV INPUT (DC)					
Nominal DC Voltage/Maximum DC Voltage	360/500VDC				
MPPT Voltage Range	90~450VDC				
Maximum Input Current	1/23A	1/23A	2/18A	1/23A	2/18A
BATTERY MODE OUTPUT (AC)					
Nominal Output Voltage	220/230/240VAC				
Output Waveform	Pure sine wave				
Efficiency (DC to AC)	94%				
HYBRID OPERATION					
PV INPUT (DC)					
Nominal DC Voltage/Maximum DC Voltage	360/500VDC				
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC				
MPPT Voltage Range	90~450VDC				
Maximum Input Current	1/23A	1/23A	2/18A	1/23A	2/18A
GRID OUTPUT (AC)					
Nominal Output Voltage	220/230/240VAC				
Output Voltage Range	190~253VDC				
Nominal Output Current	31.3A	35.6A		44.3A	
AC INPUT					
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC				
Acceptable Input Voltage Range	90-280VACor170-180VAC				
Maximum AC Input Current	40A	40A	50A		
Maximum AC Charging Current	120A	140A		140A	
GENERAL					
PHYSICAL					
Dimension, D x W x H (mm)	500*390*130	500*390*130	530*420*160	500*390*130	530*420*160
Carton Dimension,D X W XH(mm)	588*463*205		618*463*205	588*463*205	618*463*205
Net Weight (kgs)	13.6	14.5	14.6	14.8	15
Gross Weight(kgs)	14.9	16	16.1	16.2	16.5
INTERACE					
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY				
ENVIRONMENT					
Humidity	5% to 95% Relative Humidity(Non ~ condensing)				
Operating Temperature	-10°C ~ 50°C				
STANDARD					
Compliance Safety	CE				