OFF GRID SOLAR INVERTER









Features

- Pure sine wave solar inverter
- Wifi&GPRS available for IOS and android
- Built-in 80A MPPT solar charger
- High PV input voltage range(30~400VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- meet rich customized demands
- Compatible with lithium battery
- Solar energy is provided directly to the load first

Model	L-2000-12	L-3200-24
RATED POWER	2000VA/1600W	3200VA/3000W
AC Input		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For Personal Computers)	
	90~280VAC(For Home Appliances)	
Frequency Range	50 Hz/60Hz(Auto sensing)	
AC OUTPUT		
AC Voltage Regulation	230VAC±5%	
Surge Power	4000VA	6400VA
Efficiency(Peak)PV to INV	98%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers);20 ms (For Home Appliances)	
BATTERY		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	33VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	2000W	3000W
MPPT Range @ Operating Voltage	30~400VDC	
Maximum PV Array Open Circuit Voltage solar	400VDC	
Max Input Current	1/13A	
Maximum Solar Charge Current	80A	
Maximum AC Charge Current	60A	
Maximum Charging Current (Solar+AC)	80A	
PHYSICAL		
Dimension,D*W*H(mm)	357*273*95	
Carton Dimension,D X W XH(mm)	440*340*170	
Net Weight(kgs)	5	5.6
Gross Weight(kgs)	6	6.3
Communication interface	RS232/GPRS/WIFI	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non ~ condensing)	
Operating Temperature	-10℃ ~ 50℃	
STANDARD		
Compliance Safety	CE	

OFF GRID SOLAR INVERTER





Max.Effciency
98%



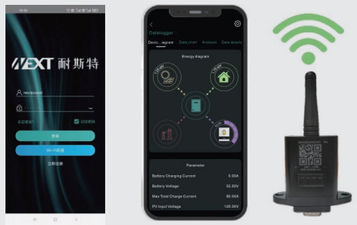
IP20
Ingress Protection



100A MPPT



RS232/GPRS
WIFI



Features

- Pure sine wave solar inverter
- Output power factor 1.0
- Wifi&GPRS available for IOS and android
- Inverter can run without battery
- Built-in 100A MPPT solar charger
- High PV input voltage range(120~450VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life

Model	3500W	5500W
RATED POWER	3500VA/3500W	5500VA/5500W
Input		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For Personal Computers)	
	90~280VAC(For Home Appliances)	
Frequency Range	50 Hz/60Hz(Auto sensing)	
OUTPUT		
AC Voltage Regulation(Batt.Mode)	230VAC±5%	
Surge Power	7000VA	11000VA
Efficiency(Peak)PV to INV	97%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers);20 ms (For Home Appliances)	
BATTERY & AC CHARGER		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
Maximum Charge Current	80A	80A
SOLAR CHARGER		
Maximum PV Array Power	5000W	6000W
MPPT Range @ Operating Voltage	120~450VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charging Current	100A	100A
Maximum Efficiency	98%	
PHYSICAL		
Dimension,D*W*H(mm)	440*310*110	
Carton Dimension,D X W XH(mm)	590*390*210	
Net Weight(kgs)	8.5	9.5
Gross Weight(kgs)	9.5	10.5
Communication interface	RS232/GPRS/WIFI	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non ~ condensing)	
Operating Temperature	-10℃ ~ 50℃	
STANDARD		
Compliance Safety	CE	

ON/OFF GRID SOLAR INVERTER







Features

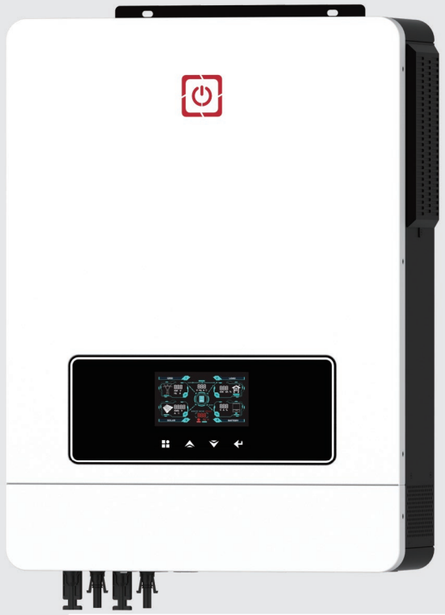
- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120A MPPT Solar charge:max 6200W(for 3.6KW/4.2KW), max 6500W (for 6.2KW)
- High PV input voltage range(60~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

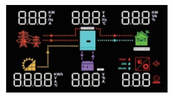
MODEL	.6KW PLUS	4.2KW	6.2KW
Phase		1-phase	
Maximum PV Input Power	6200W	6200W	6500W
Rated Output Power	3600W	4200W	6200W
Maximum Solar Charging Current		120A	
GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage		360/500VDC	
Start-up Voltage / Initial Feeding Voltage		60VDC/90VDC	
MPPT Voltage Range		60~450VDC	
Maximum Input Current	1/18A		1/22A

GRID OUTPUT (AC)			
Nominal Output Voltage		220/230/240VAC	
Output Voltage Range		195.5~253VAC	
Nominal Output Current	15.7A	18.2A	27.0A
Power Factor		>0.99	
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)		98%	
TWO LOAD OUTPUT POWER			
Full Load	3600W	4200W	6200W
Maxium Main Load	3600W	4200W	6200W
Maxium Second Load(battery mode)	1200W	1400W	2067W
Maxium Load Cut Off Voltage	26VDC	26VDC	52VDC
Maxium Load Return Voltage	27VDC	27VDC	54VDC
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage		120-140VAC/180VAC	
Acceptable Input Voltage Range		90-280VAC or 170-280VAC	
Frequency Range		49~51±1HZ	
Maximum AC Input Current	30A	30A	40A
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage		360/500VDC	
MPPT Voltage Range		60~450VDC	
Maximum Input Current		1/18A	1/22A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage		220/230/240VAC	
Output Waveform		Pure sine wave	
Efficiency (DC to AC)		94%	
BATTERY & CHARGER			
Nominal DC Voltage		24VDC	48VDC
Maximum Solar Charging Current	120A	140A	120A
Maximum AC Charging Current	100A	100A	100A
Maximum Charging Current	120A	140A	120A
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage		360/500VDC	
Start-up Voltage / Initial Feeding Voltage		90VDC/120VDC	
MPPT Voltage Range		60~450VDC	
Maximum Input Current		1/18A	1/22A
GRID OUTPUT (AC)			
Nominal Output Voltage		220/230/240VAC	
Output Voltage Range		195.5~253VAC	
Nominal Output Current	15.7A	18.2A	27.0A
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	30A	30A	40A
Maximum AC Charging Current		100A	
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)		420*350*110	
Carton Dimension,D X W XH(mm)		500*415*180	
Net Weight (kgs)	8	8.5	9
Gross Weight(kgs)	9	9.5	10
INTERACE			
Communication Port		RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
ENVIRONMENT			
Humidity		5% to 95% Relative Humidity(Non ~ condensing)	
Operating Temperature		-10℃ ~ 50℃	
STANDARD			
Compliance Safety		CE	

ON/OFF GRID SOLAR INVERTER







LCD Display





Dual PV LCD Display



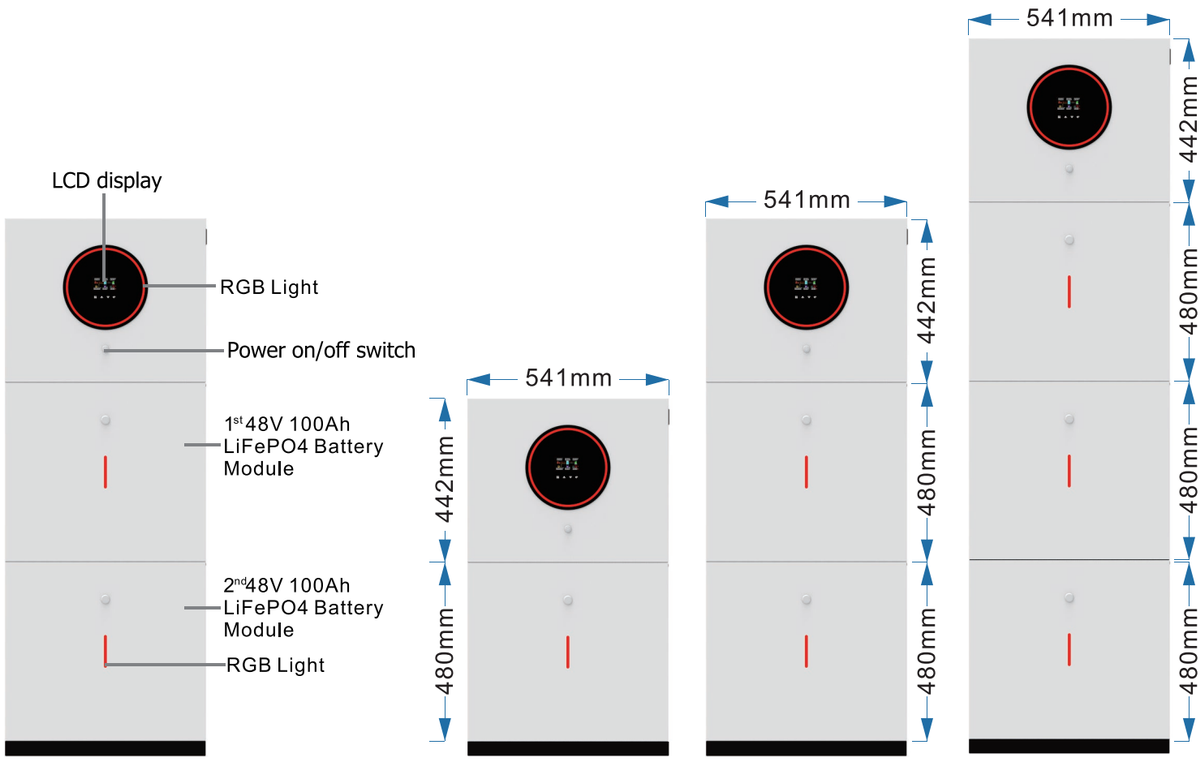
Features

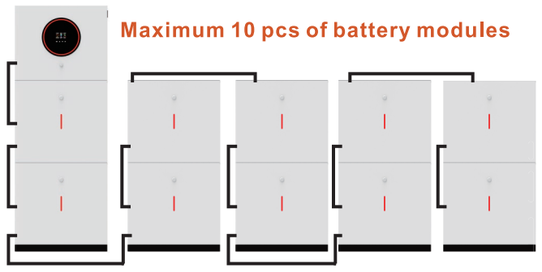
- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 160A MPPT solar charger (for 8.2kw,10.2kw), 140A(for 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

MODEL	7.2KW	8.2KW		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

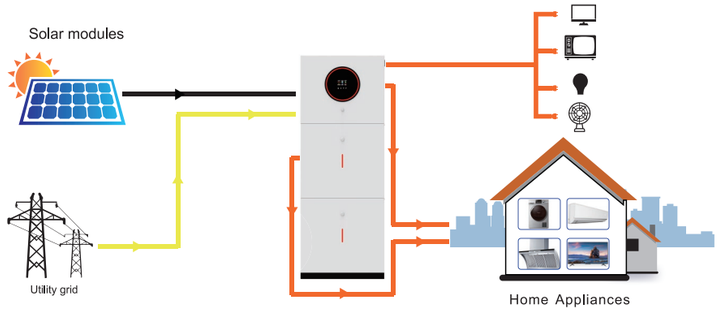
GRID OUTPUT (AC)					
Nominal Output Voltage	220/230/240VAC				
Output Voltage Range	190~253VDC				
Nominal Output Current	31.3A	35.6A		44.3A	
Power Factor	>0.99				
EFFICIENCY					
Maximum Conversion Efficiency (DC/AC)	98%				
TWO LOAD OUTPUT POWER					
Full Load	7200W	8200W		10200W	
Maxium Main Load	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%				
BATTERY & CHARGER					
Nominal DC Voltage	48VDC				
Maximum Solar Charging Current	140A	160A		160A	
Maximum AC Charging Current	120A	140A		140A	
Maximum Charging Current	140A	160A		160A	
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℃ ~ 50℃				
STANDARD					
Compliance Safety	CE				

Product Overview



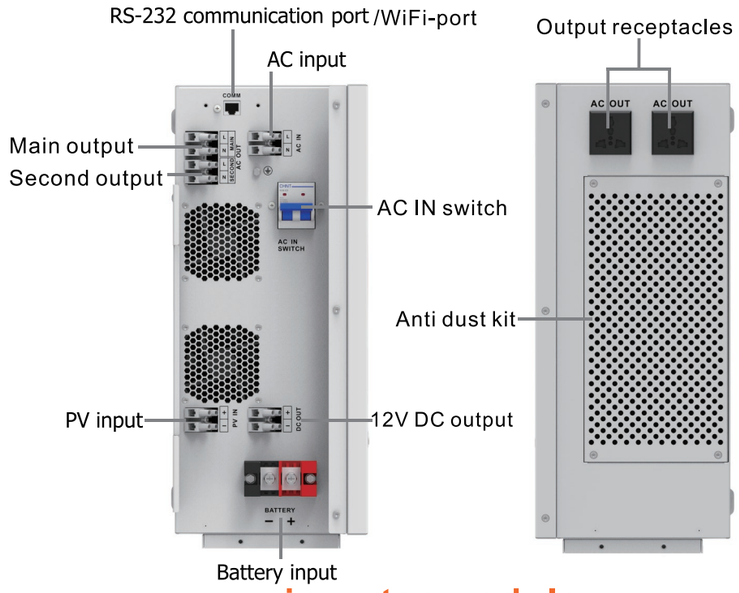


System Diagram

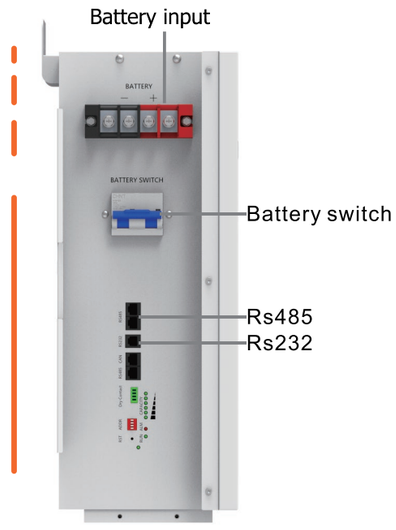


BATTERY

MODEL		25.6V100AH	25.6V200AH	48V100AH	48V200AH
Normal charging voltage		29.2V	29.2V	54.75V	54.75V
Maximum charging current		100A	100A	100A	100A
Discharge termination voltage		21.6V	21.6V	40.5V	40.5V
Recommended discharge termination voltage		22.4V	22.4V	42V	42V
Maximum discharge current		100A	100A	100A	100A
Single cell charging overvoltage protection		3.8V	3.8V	3.8V	3.8V
Overvoltage protection for the whole battery		29.2V	29.2V	54.75V	54.75V
Low voltage protection for single cell discharge		2.7V	2.7V	2.7V	2.7V
Low voltage protection for whole group discharge		21.6V	21.6V	40.5V	40.5V
Charge overcurrent protection		102~112A	102~112A	102~112A	102~112A
Discharge overcurrent protection		102~122A	102~122A	102~122A	102~122A
BMS Features		High accuracy cell level voltage, current measuring Over-charge, over-discharge protection Short-circuit protection Self-learning intelligent SOC calculation Cell level active equalization Multiple communication type Parallel connect function			
Working temperature		-15℃~+55℃			
Storage temperature		-20℃~+50℃			
Single Battery Module	Dimensions(mm)	541*480*190	541*480*190	541*480*190	541*480*190
	Weight(Kg)	27KG	54KG	54KG	54KG



inverter module



battery module