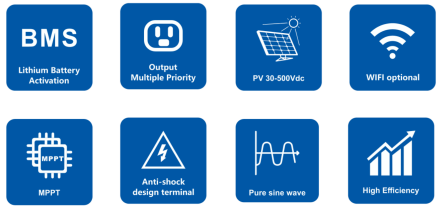
PURE SINE WAVE INVERTER SERIES



HIGH PERFORMANCE INVERTER FOR HOUSEHOLD ENERGY STORAGE

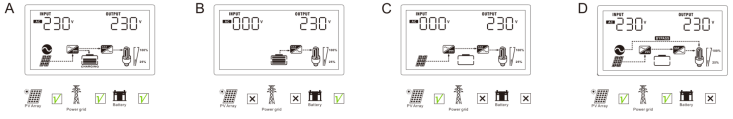
1.5KW-12L

CELL AMERICAN



Pure Sine Wave
PV Input 500Vdc Max
Built-in MPPT 60A-100A
Wifi remote monitoring optional
Detachable dust cover for harsh environment
Support multiple output priority: UTL,SOL,SBU,SUB
Lithium battery activation function, which can be triggered by PV
EQ function to optimize battery performance and extend lifecycle

Working Mode



MODEL	OSM-1.5KW-12L
Capacity	1500VA/1500W
Parallel Capability	NO
Lithium Battery Activation	YES(BY PV)
Lithium battery Communication	NO
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)
Frequency	50/60 Hz (Auto sensing)
OUTPUT	
Nominal Voltage	220/230VAC±5%
Rated Power	1500VA/1500W
Battery Mode Power	1200VA/1200W
Surge Power	3000VA
Frequency	50/60 Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency (PV to INV)	96%
Peak Efficiency (Battery to INV)	93%
Overload Protection	5s@ > =140% load; 10s@100%~140% load
Crest Factor	3:1
Admissible Power Factor	0.6~1 (inductive or capacitive)
BATTERY	
Battery Voltage	12Vdc
Floating Charge Voltage	13.5Vdc
OverCharge Protection	16.5Vdc
Charging Method	CC/CV
SOLAR CHARGER & AC CHARGER	
Solar Charger TYPE	MPPT
Max.PV Array Power	2000W
Max. PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	30VDC~500VDC
Max. Solar Input Current	15A
Max. Solar Charge Current	100A
Max. AC Charge Current	60A
Max. Charge Current(AC+PV)	100A
PHYSICAL	
Dimensions, D x W x H(mm)	330*278*98
Package Dimensions, D x W x H(mm)	400*365*174
Net Weight (Kgs)	3.8
Communication Interface	RJ45 For WiFi
ENVIRONMENT	
Operating Temperature Range	-10°C to 55°C
Storage temperature	-15°C~ 60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Ingress Protection	IP21

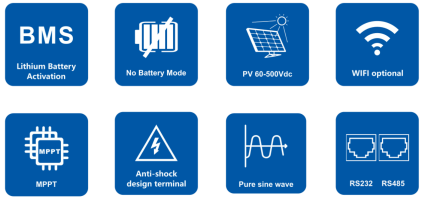
PURE SINE WAVE INVERTER SERIES



HIGH PERFORMANCE INVERTER FOR HOUSEHOLD ENERGY STORAGE

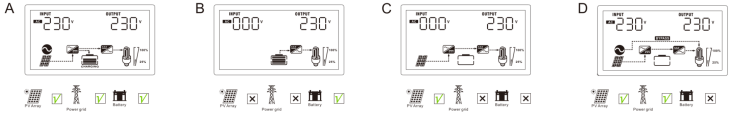
2.5KW-3.5KW-6.5KW

CELL AMERICAN



Pure sine wave Power factor 1.0
Built-in MPPT 100A/120A Capable to work without battery
WIFI remote monitoring optional PV input Voltage 60Vdc-500Vdc
Detachable dust cover for harsh environment Compatible work with lifepo4 battery via Rs485
Lithium battery activation function by PV or Utility Support multiple output priority: UTL, SOL, SBU, SUB
EQ function to optimize battery performance and extend lifecycle

Working Mode



MODEL	OSM-2.5KW-24L	OSM-3.5KW-24L	OSM-6.2KW-48L
Capacity	2.5KVA/2.5KW	3.5KVA/3.5KW	6.2KVA/6.2KW
Parallel Capability	NO	NO	NO
Lithium Battery activation	YES (By PV only)	YES (By PV or Utility)	YES (By PV or Utility)
Lithium Battery communication	YES(RS485)		
Built-in WIFI	Optional		
INPUT			
Nominal Voltage	230VAC		
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)		
Frequency	50/60 Hz(Auto sensing)		
OUTPUT			
Nominal Voltage	220/230VAC±5%		
Surge Power	5000VA	7000VA	12400VA
Frequency	50/60Hz		
Waveform	Pure Sine wave		
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)		
Peak Efficiency(PV to INV)	96%		
Peak Efficiency(Battery to INV)	93%		
Overload Protection	5s@>=140% load; 10s@110%~140% load		
Crest Factor	3:1		
Admissible Power Factor	0.6~1 (inductive or capacitive)		
BATTERY			
Battery Voltage	24VDC	24VDC	48VDC
Floating Charge Voltage	27VDC	27VDC	54VDC
OverCharge Protection	33VDC	33VDC	63VDC
Charging Method	CC / CV		
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Max.PV Array Power	3000W	4000W	6500W
Max.PV Array Open Circuit Voltage	500VDC		
PV Array MPPT Voltage Range	60VDC~500VDC		
Max.Solar Input Current	15A	15A	27A
Max.Solar Charge Current	100A	100A	120A
Max.AC Charge Current	60A	80A	80A
Max.Charge Current (PV+AC)	100A	100A	120A
PHYSICAL			
Dimensions,D x W x H(mm)	358*295*100	358*295*100	438*295*105
Package Dimensions,D x W x H(mm)	465*380*175	465*380*175	560*375*185
Net Weight(Kg)	6.5	7	9
Communication Interface	RS232+RS485		
ENVIRONMENT			
Operating Temperature Range	(-10℃ to 55℃)		
Storage Temperature	(-15℃ ~ 60℃)		
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Ingress Protection	IP21		

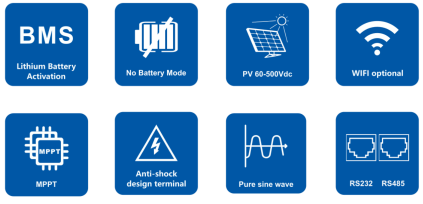
PURE SINE WAVE INVERTER SERIES



HIGH PERFORMANCE INVERTER FOR HOUSEHOLD ENERGY STORAGE

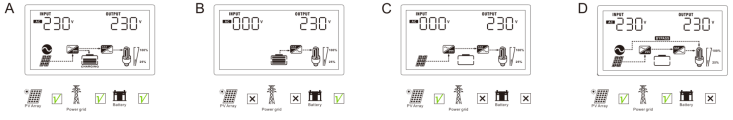
11KW-48L

CELL AMERICAN



Built-in 2 MPPT Pure Sine Wave
Power factor 1.0 PV Input 500Vdc Max
Built-in MPPT 140A/160A Capable to work without battery
WIFI remote monitoring optional Detachable dust cover for harsh environment
Support multiple output priority: SUB,SBU,SUF Lithium battery activation function by PV or Utility
Compatible work with LiFePO4 battery via RS485
EQ function to optimize battery performance and extend lifecycle

Working Mode



CELL AMRECAN

MODEL	OSM-11KW-48L
Capacity	11KVA/11KW
Maximum PV Input Power	11KW
Parallel Capability	NO
Lithium Battery Activation	YES (By PV or Utility)
Lithium Battery Communication	YES(RS485)
Built-in WIFI	Optional
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)
Frequency	50/60 Hz (Auto sensing)
OUTPUT	
Nominal Voltage	220/230/240VAC
Surge Power	22000VA
Frequency	50/60 Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency	94%
Overload Protection	5s@ > =140% load; 10s@110%~140% load
Admissible Power Factor	0.6~1 (inductive or capacitive)
BATTERY	
Battery Voltage	48VDC
Maximum Discharge Current	220A
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
SOLAR CHARGER & AC CHARGER	
Solar Charger TYPE	MPPT
Max.PV Array Power	5500W*2
Max. PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC
Max. Solar Input Current	18A*2
Max. Solar Charge Current	160A
Max. AC Charge Current	120A
Max. Charge Current	160A
PHYSICAL	
Dimensions, D x W x H(mm)	540*403*122
Net Weight (Kgs)	14.8
Communication Interface	RS232/RS485/DRY CONTACT
LCD	YES
ENVIRONMENT	
Operating Temperature Range	-10°C to 55°C
Storage temperature	-15°C~ 60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Ingress Protection	IP21

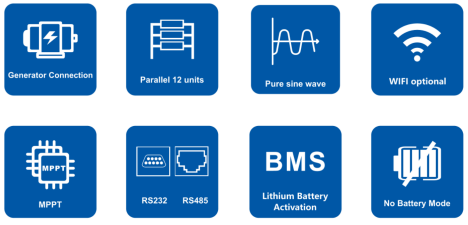
PURE SINE WAVE INVERTER SERIES



HIGH PERFORMANCE INVERTER FOR HOUSEHOLD ENERGY STORAGE

6.2KW-48PL

CELL AMERICAN



Pure sine wave Power factor 1.0
Built-in MPPT 120A Built-in WIFI optional
PV input 500Vdc Max Capable to work without battery
Compatible work with lifepo4 battery Detachable dust cover for harsh environmet
Support multiple output priority: SUB,SBU,SUF Parallel operation up to 12 units in 1phase or 3phase
EQ function to optimize battery performance and extend lifecycle



MODEL	M6200-48PL
Capacity	6.2KVA/6.2KW
Parallel Capability	YES,**12** Units
Lithium battery activation	YES(By PV or Utility)
Lithium battery Communication	YES(RS485)
Built-in WIFI	Optional
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
OUTPUT	
Nominal Voltage	220/230VAC±5%
Surge Power	12400VA
Frequency	50/60Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency	94%
Overload Protection	5s@>=140% load; 10s@110%~140% load
Crest Factor	3:1
Admissible Power Factor	0.6~1 (inductive or capacitive)
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC / CV
SOLAR CHARGER & AC CHARGER	
Solar Charger Type	MPPT
Max.PV Array Power	6500W
Max.PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC
Max.Solar Input Current	27A
Max.Solar Charge Current	120A
Max.AC Charge Current	80A
Max.Charge Current	120A
PHYSICAL	
Dimensions,D x W x H(mm)	450*300*130
Package Dimensions,D x W x H(mm)	540x390x210
Net Weight(Kg)	12
Communication Interface	RS232 / RS485
ENVIRONMENT	
Operating Temperature Range	(-10℃ to 55℃)
Storage Temperature	(-15℃ ~ 60℃)
Humidity	5% to 95% Relative Humidity (Non-condensing)
Ingress Protection	IP21

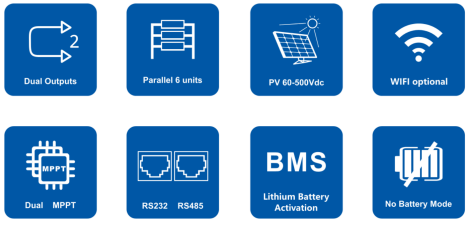
PURE SINE WAVE INVERTER SERIES



HIGH PERFORMANCE INVERTER FOR HOUSEHOLD ENERGY STORAGE

11KW-48PL

CELL AMERICAN



Built-in 2 MPPT
Dual AC output
PV Input 500Vdc Max
Parallel max up to 6 units
WIFI remote monitoring optional
Support multiple output priority: SUB,SBU,SUF
EQ function to optimize battery performance and extend lifecycle
Pure Sine Wave
Power factor 1.0
Built-in MPPT 140A/160A
Capable to work without battery
Detachable dust cover for harsh environment
Lithium battery activation function by PV or Utility
Compatible work with LiFePO4 battery via Rs485

MODEL	OSM-11KW-48PL
CAPACITY	11KVA/11KW
Maximum PV Input Power	11KW
Twin AC Output Function	YES
Maximum Main Output Power	11KVA/11KW
Maximum Second Output Power	5.5KVA/5.5KW
Maximum Total Output Power	11KVA/11KW
Parallel Capability	YES, 6units
Lithium Battery Communication	YES(RS485)
Lithium Battery Activation	YES(By PV or Utility)
Built-in WIFI	Optional
INPUT	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)
Frequency	50/60 Hz (Auto sensing)
OUTPUT	
Nominal Voltage	220/230/240VAC
Surge Power	22000VA
Frequency	50/60 Hz
Waveform	Pure Sine wave
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)
Peak Efficiency (PV to INV)	96%
Peak Efficiency (Battery to INV)	93%
Overload Protection	5s@ > =140% load; 10s@110%~140% load
Crest Factor	3:1
Admissible Power Factor	0.6~1 (inductive or capacitive)
BATTERY	
Battery Voltage	48VDC
Maximum Discharge Current	220A
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC/CV
Solar Charger & AC Charger	
Solar Charger TYPE	MPPT
Max.PV Array Power	5500W*2
Max. PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC
Max. Solar Input Current	18A*2
Max. Solar Charge Current	160A
Max. AC Charge Current	120A
Max. Charge Current	160A
PHYSICAL	
Dimensions, D x W x H(mm)	540*415*122
Net Weight (Kgs)	15.5
Communication Interface	RS232/RS485/Dry-contact
LCD	YES
ENVIRONMENT	
Operating Temperature Range	-10°C to 55°C
Storage temperature	-15°C~ 60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Ingress Protection	Ip21