



HYBRID SOLAR INVERTER – Where Sunshine Meets Backup Power.

ECO SERIES

Hybrid solar inverter



Features:

-  Cost-effective solution design
-  Rounded corner design, exquisite appearance
-  Multiple parameters can be adjusted according to user needs to adapt to different occasions
-  Power below 3KW does not support battery-free mode
-  Support lithium battery communication
-  External WIFI, generator self-start dry contact function
-  Real-time display of actual load power greatly improves user perception
-  Pure sine wave output, can adapt to different loads
-  Output short-circuit protection function

MODEL	ECO 2012	ECO 3024	ECO 3624	ECO 5548	ECO 6248	ECO 11048
Rated input voltage	220/230/240VAC					
Voltage range	90-280VAC±3V(normal mode) 170-280VAC±3V(UPS mode)					
Frequency range	50Hz/60Hz(Adaptive)					
OUTPUT						
Battery Inverter	1600W	3000W	3600W	5500W	6200W	11000W
Photovoltaic Inverter	1600W	3000W	4500W	6500W	6500W	11000W
Peak Power	3200VA	6000VA	7200VA	11000VA	12400VA	22000W
Output voltage	220/230/240VAC±5%					
Output frequency	50/60Hz±0.1%					
Waveform	pure Sine Wave					
Switching time (adjustable)	Computer equipment 10ms, home appliances 20ms					
Overload capacity	Battery Mode：11s@105%~150% Load;2s@150%~200% Load;400ms@>200% Load					
GRID-CONNECTED OPERATION						
Output voltage	No grid connection		220/230/240VAC			
grid feeding voltage range			195-253VA			
grid feeding frequency range			49-51±1Hz/59-61±1Hz			
nominal output current			15.7A	23.9A	26.9A	47.8A
power factor range			>0.99			
maximum conversion efficiency (DC/AC)			98%			
BATTERY						
Rated voltage	12Vdc	24Vdc	24Vdc	48Vdc	48Vdc	48Vdc
constant voltage charging voltage (configurable)	14.1Vdc	28.2Vdc	28.2Vdc	56.4Vdc	56.4Vdc	56.4Vdc
float charging voltage (configurable)	13.5Vdc	27Vdc	27Vdc	54Vdc	54Vdc	54Vdc
PV CHARGER						
PV charging method	MPPT	MPPT	MPPT	MPPT	MPPT	Dual MPPT
Maximum input power of PV	2000W	3000W	5000W	7500W	7500W	2×5500W
MPPT input voltage range	40~500Vdc	40~500Vdc	60~500Vdc	60~500Vdc	60~500Vdc	90~500Vdc
optimal Vmp operating range	300~400Vdc	300~400Vdc	300~400Vdc	300~400Vdc	300~400Vdc	300~400Vdc
maximum PV input voltage	500Vdc	500Vdc	500Vdc	500Vdc	500Vdc	500Vdc
maximum PV input current	13A	13A	18A	27A	27A	18A/18A
maximum PV charging current	100A	100A	120A	100A	120A	150A
maximum mains charging current	60A	60A	100A	100A	100A	150A
maximum charging current	100A	100A	120A	100A	120A	150A
DISPLAY						
LCD Interface	Can display operation mode/load/input/output, etc.					
INTERFACE						
RS232	Baud rate 2400					
Expansion slot communication interface	Lithium battery BMS communication card, WIFI card, dry contact card, etc.					
Parallel interface	No parallel function					Parallel function
ENVIRONMENTAL PARAMETERS						
Operating ambient temperature	-10℃~+50℃					
Operating environment humidity	20%~95%(No condensation)					
Storage temperature	-15℃~+60℃					
noise	<45dB					
PHYSICAL PARAMETERS						
Depth × width × height (mm)	403*304*114mm		433*330*138mm			601*360*163.5mm
Standards and certifications	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1					

OFF GRID HYBRID INVERTER



CM-N

CM-S



CM Series 1.5 / 2.5 / 3.5KW PV 30-500Vdc



Output
Multiple Priority



Inverter
Wake-up Function



MPPT



PV 30-500Vdc



Anti-shock
design terminal



High Efficiency



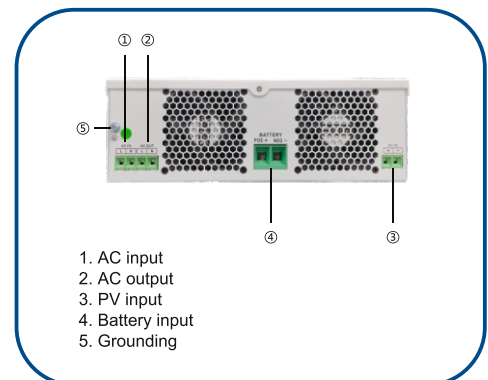
Pure sine wave



WiFi

Product Features

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



Technical Data

MODEL	CM1500-12S	CM1500-12N	CM1500-24S	CM1500-24N	CM2500-24S	CM2500-24N	CM3500-24S	CM3500-24N
Capacity	1500VA/1500W		1500VA/1500W		2500VA/2500W		3500VA/3500W	
Parallel Capability	NO		NO		NO		NO	
Lithium Battery Activation	YES(By PV)	NO	YES(By PV)	NO	YES(By PV)	NO	YES(By PV)	NO
Lithium battery Communication	NO		NO		NO		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		1500VA/1500W		2500VA/2500W		3500VA/3500W	
Battery Mode Power	1200VA/1200W		1200VA/1200W		2500VA/2500W		3000VA/3000W	
Surge Power	3000VA		3000VA		5000VA		7000VA	
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		24Vdc					
Floating Charge Voltage	13.5Vdc		27Vdc					
OverCharge Protection	16.5Vdc		32Vdc					
Charging Method	CC/CV							
SOLAR CHARGER & AC CHARGER								
Solar Charger TYPE	MPPT							
Max.PV Array Power	2000W		2000W		3000W		4000W	
Max. PV Array Open Circuit Voltage	500VDC							
PV Array MPPT Voltage Range	30VDC~500VDC							
Max. Solar Input Current	15A							
Max. Solar Charge Current	100A		60A		100A		100A	
Max. AC Charge Current	60A		60A		60A		60A	
Max. Charge Current(AC+PV)	100A		60A		100A		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		3.8		3.95		3.95	
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							

*Product specifications are subject to change without further notice.

OFF GRID HYBRID INVERTER



EMT Pro Series 3.6 PV 30-500Vdc
EMT Pro Series 6.2 PV 60-500Vdc



RGB Lights



100/120A MPPT



Dual Outputs



Colored LCD



Pure sine wave



PV 30-500Vdc/
PV 60-500Vdc



Lithium Battery
Activation

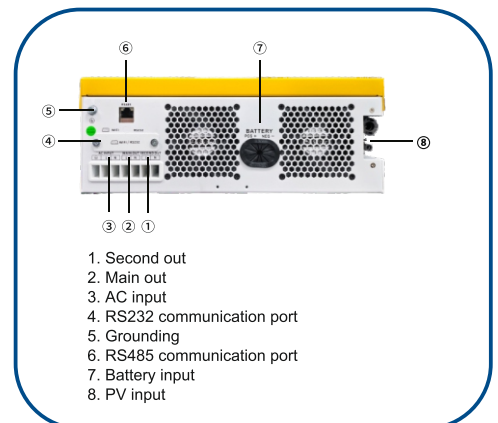


WiFi Optional



Features

- Dual output for smart load management
- Lithium battery activation function by PV or Utility
- Colored LCD with RGB lights
- Compatible work with LiFePO4 battery via RS485
- PV Input 500Vdc Max
- Built-in MPPT 100/120A
- Capable to work without battery
- Detachable dust cover for harsh environment
- Wifi remote monitoring optional
- Support multiple output priority: UTL,SOL,SBU,SUB,SUF
- EQ function to optimize battery performance and extend lifecycle



Technical Data

MODEL	EM3600T-24L Pro	EM6200T-48L Pro
PHASE	1-Phase In /1-Phase Out	1-Phase In /1-Phase Out
Maximum PV Input Power	4000W	6500W
Maximum Main Output Power	3600VA/3600W	6200VA/6200W
Maximum Second Output Power	3600VA/3600W	6200VA/6200W
Maximum Total Output Power	3600VA/3600W	6200VA/6200W
Parallel Capability	NO	NO
Lithium Battery activation	YES (By PV or Utility)	YES (By PV or Utility)
Lithium Battery communication	YES(RS485)	YES(RS485)
Built-in WIFI	Optional	
AC INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)	
Frequency	50/60 Hz (Auto sensing)	
AC OUTPUT		
Nominal Voltage	220/230VAC±5%	
Surge Power	7200VA	12400VA
Frequency	50/60 Hz	
Waveform	Pure Sine wave	
Dual Outputs	Yes	
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	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
OverCharge Protection	33VDC	63VDC
Charging Method	CC/CV	CC/CV
SOLAR CHARGER & AC CHARGER		
Solar Charger TYPE	MPPT	
Max.PV Array Power	4000W	6500W
Max. PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	30VDC~500VDC	60VDC~500VDC
Max. Solar Input Current	1 / 15A	1 / 27A
Max. Solar Charge Current	100A	120A
Max. AC Charge Current	80A	80A
Max. Charge Current	100A	120A
PHYSICAL		
Dimensions, D x W x H(mm)	368x312x105.5	438x312x122
Package Dimensions, D x W x H(mm)	470x382x180	540x390x210
Net Weight (Kgs)	6.7	9.3
Communication Interface	RS485(RJ45)/RS232(DB9)	
LCD	Colorful Screen+RGB Light	
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	

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OFF GRID HYBRID INVERTER



EMT Pro Series 4.2/5KW PV 60-500Vdc



RGB Lights



100A MPPT



Dual Outputs



Colorful LCD display



Pure sine wave



PV 60-500Vdc



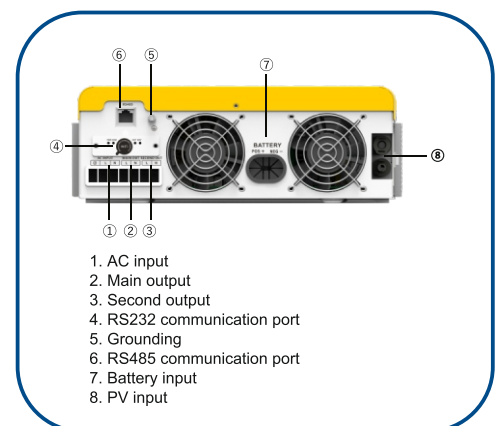
Lithium Battery
Activation



Built-in WiFi

Features

- Dual output for smart load management
- Lithium battery activation function by PV or Utility
- Colored LCD with RGB lights
- Compatible work with LiFePO4 battery via RS485
- PV Input 500Vdc Max
- Built-in MPPT 100A
- Capable to work without battery
- Detachable dust cover for harsh environment
- Built-in Wifi remote monitoring optional
- Support multiple output priority: UTL,SOL,SBU,SUB
- EQ function to optimize battery performance and extend lifecycle



1. AC input
2. Main output
3. Second output
4. RS232 communication port
5. Grounding
6. RS485 communication port
7. Battery input
8. PV input

Technical Data

MODEL	EM4200T-24L Pro	EM5000T-48L Pro
PHASE	1-Phase In /1-Phase Out	1-Phase In /1-Phase Out
Maximum PV Input Power	5000W	5000W
Maximum Main Output Power	4200VA/4200W	5000VA/5000W
Maximum Second Output Power	4200VA/4200W	5000VA/5000W
Maximum Total Output Power	4200VA/4200W	5000VA/5000W
Parallel Capability	NO	NO
Lithium Battery activation	YES (By PV or Utility)	YES (By PV or Utility)
Lithium Battery communication	YES(RS485)	YES(RS485)
Built-in WIFI	Optional	
AC INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)	
Frequency	50/60 Hz (Auto sensing)	
AC OUTPUT		
Nominal Voltage	220/230VAC±5%	
Surge Power	8400VA	10000VA
Frequency	50/60 Hz	
Waveform	Pure Sine wave	
Dual Outputs	Yes	
Transfer Time	10ms(For personal Computer);20ms(For Home A ppliances)	
Peak Efficiency(PV to INV)	96%	
Overload Protection	5s@ > =140% load; 10s@110%~140% load	
Admissible Power Factor	0.6~1 (inductive or capacitive)	
BATTERY		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
OverCharge Protection	33VDC	63VDC
Charging Method	CC/CV	CC/CV
SOLAR CHARGER & AC CHARGER		
Solar Charger TYPE	MPPT	
Max.PV Array Power	5000W	5000W
Max. PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	60VDC~500VDC	60VDC~500VDC
Max. Solar Input Current	1 / 27A	1 / 27A
Max. Solar Charge Current	100A	100A
Max. AC Charge Current	80A	60A
Max. Charge Current	100A	100A
PHYSICAL		
Dimensions, D x W x H(mm)	312.4x350x114.5	312.4x350x114.5
Package Dimensions, D x W x H(mm)	475x390x180	475x390x180
Net Weight (Kgs)	8.5	8.5
Communication Interface	RS485(RJ45)/RS232(DB9)	
LCD	Colorful Screen+RGB Light	
ENVIRONMENT		
Operating Temperature Range	-10°C to 50°C	
Storage temperature	-15°C~ 50°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Ingress Protection	IP21	

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OFF GRID HYBRID INVERTER



EMT Pro Series 8.5 / 11KW PV 60-500Vdc



RGB Lights



Dual Outputs



Dual MPPT



Colored LCD



PV 60-500Vdc



Anti-shock
design terminal



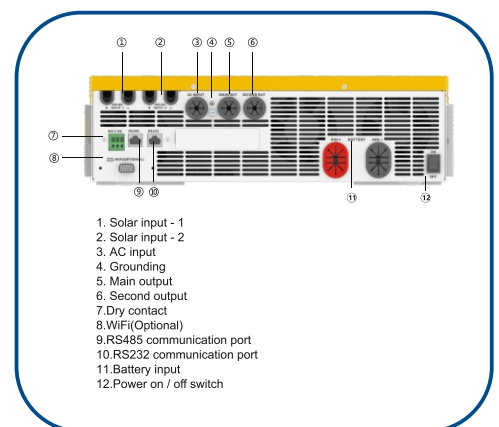
Lithium Battery
Activation



WIFI Optional

Features

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



Technical Data

MODEL	EM8500T-48L Pro	EM11000T-48L Pro
Capacity	8.5KVA/8.5KW	11KVA/11KW
Maximum PV Input Power	10KW	11KW
Parallel Capability	NO	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	17000VA	22000VA
Frequency	50/60 Hz	
Waveform	Pure Sine wave	
Dual Outputs	YES	
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	48VDC
Maximum Discharge Current	180A	220A
Floating Charge Voltage	54VDC	54VDC
OverCharge Protection	63VDC	63VDC
Charging Method	CC/CV	
SOLAR CHARGER & AC CHARGER		
Solar Charger TYPE	MPPT	MPPT
Max.PV Array Power	5000W*2	5500W*2
Max. PV Array Open Circuit Voltage	500VDC	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC	60VDC~500VDC
Max. Solar Input Current	18A*2	18A*2
Max. Solar Charge Current	140A	160A
Max. AC Charge Current	120A	120A
Max. Charge Current	140A	160A
PHYSICAL		
Dimensions, D x W x H(mm)	540x403x122	540x403x122
Package Dimensions,D x W x H(mm)	637x495x214	637x495x214
Net Weight (Kgs)	14.5	14.8
Communication Interface	RS232/RS485/DRY CONTACT	
LCD	Colorful Screen+RGB Light	
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	

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OFF GRID HYBRID INVERTER



EM Series 1.5 / 2.5 / 3.5 / 5.5 / 6.2KW 220V / 230Vac Output



RS232 / RS485



MPPT
60/100/120A



PV 60-500Vdc



No Battery Mode



BMS
Lithium Battery
Activation



High Efficiency



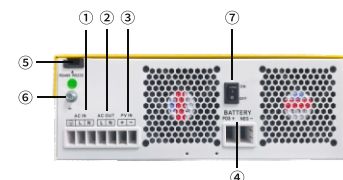
Pure sine wave



WiFi

Product Features

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



1. AC input
2. AC output
3. PV input
4. Battery input
5. RS232 / RS485 communication port
6. Grounding
7. Power on/off switch

Technical Data

MODEL	EM1500-24L	EM2500-24L	EM3500-24L	EM5500-48L	EM6200-48L
Capacity	1.5KVA/1.5KW	2.5KVA/2.5KW	3.5KVA/3.5KW	5.5KVA/5.5KW	6.2KVA/6.2KW
Parallel Capability	NO	NO	NO	NO	NO
Lithium Battery activation	YES (By PV only)		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	3000VA	5000VA	7000VA	11000VA	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	24VDC	48VDC	48VDC
Floating Charge Voltage	27VDC	27VDC	27VDC	54VDC	54VDC
OverCharge Protection	33VDC	33VDC	33VDC	63VDC	63VDC
Charging Method	CC / CV				
SOLAR CHARGER & AC CHARGER					
Solar Charger Type	MPPT				
Max.PV Array Power	2000W	3000W	4000W	5500W	6500W
Max.PV Array Open Circuit Voltage	500VDC				
PV Array MPPT Voltage Range	60VDC~500VDC				
Max.Solar Input Current	15A	15A	15A	18A	27A
Max.Solar Charge Current	60A	100A	100A	100A	120A
Max.AC Charge Current	60A	60A	80A	80A	80A
Max.Charge Current (PV+AC)	60A	100A	100A	100A	120A
PHYSICAL					
Dimensions,D x W x H(mm)	358*295*100	358*295*100	358*295*100	438*295*105	438*295*105
Package Dimensions,D x W x H(mm)	465*380*175	465*380*175	465*380*175	560*375*185	560*375*185
Net Weight(Kg)	6	6.5	7	9	9
Communication Interface	RS232+RS485				
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				

Product specifications are subject to change without further notice.

ENERGY STORAGE HYBRID INVERTER

SUMAK SERIES



ENERGY STORAGE INVERTER

3000W~6200W

FEATURES

-  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, $\pm 5\%$, Take Care of Your Appliances
-  Communication Option: External WIFI, Supervise at Any Time
-  BMS function for lithium battery



APPLICATION



Commercial car park



Street lighting/monitoring



Family/greenhouse



Commercial/construction

Model		SUMAK3024SMH	SUMAK3624SMH	SUMAK5548SMH	SUMAK6248SMH
Input Formation		L+N+PE			
AC Input		220/230/240VAC			
Input Voltage Range		90-280VAC±3V(Normal Mode)185-264VAC±3V (UPS Mode)			
Frequency		50/60Hz(Adaptive)			
Rated Power		3000W	3600W	5500W	6200W
Dual Output Power		3000W 3000W	3600W 3600W	5500W 5500W	6200W 6200W
Second Load Cut Off Voltage		22V		44V	
Second Load Return Voltage		26V		52V	
Output Voltage(AC)		208/220/230/240VAC±5%			
Output Frequency		50/60Hz±0.1%			
Output Wave		Pure Sine Wave			
Transfer Time(Adjustable)		10ms for Computer Equipment,20ms for Household Equipment			
Peak Power		6000VA	7200VA	11000VA	12400VA
Overload Ability		Battery Mode 21s@102%~110% load 10s@110%~130% load 3s@130%-150% load 400ms@>150% load			
Grid connected Operation	Output Voltage	208/220/230/240VAC±5% (Feed-in Grid Voltage Range:195-253VAC)			
	Grid Voltage Range	195-253VA			
	Grid Frequency Range	50/60Hz±0.1% (Feed-in Grid Frequency Range: 49-51+1Hz/59-61+1Hz)			
	Output Current	13.6A	16.3A	23.9A	26.9A
	Power Factor Range	>0.99			
Peak Efficiency(Battery Model)		>94%			
Rated Voltage		24VDC		48VDC	
Constant Charging Voltage		28.2VDC		56.4Vdc	
Float Charging Voltage		27VDC		54VDC	
PV Charging Method		MPPT			
Max PV Input Power		5000W	5000W	7500W	7500W
PV Input Voltage Range		60~500VDC	60~500VDC	60~500VDC	60~500VDC
MAX PV Input Voltage		500VDC	500VDC	500VDC	500VDC
MAX PV Input Current		18A	18A	27A	27A
MAX PV Charge Current		100A	120A	100A	120A
MAX AC Charge Current		60A	100A	60A	100A
MAX Charge Current		100A	100A	100A	120A
LCD		Can display operating mode/load/input/output			
RS232		5PIN/Pitch2.54mm,Baud Rate 2400			
Expansion Slot Communication Interface		Lithium Battery BMS Communication Card,WIFI 2×5PIN/Pitch2.54mm			
Parallel Interface		Not Support Parallel		Support Parallel	
Operating Temperature		-10℃~50℃			
Storage Temperature		-15℃~60℃			
Ork Altitude		No more than 1000m, If 1000m<,Rate power will lower, MAX 4000m, Refer			
Operating Environment Humidity		Non Condensing			
Noise		<50dB			
L*W*H(mm)		495*312*125mm			



ENERGY STORAGE HYBRID INVERTER

SUMAK SERIES

ENERGY STORAGE INVERTER

8600W~11000W

FEATURES

-  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, $\pm 5\%$, 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

Model		SUMAK8648MH	SUMAK11048MH
Nominal Voltage		220/230/240VAC	
Voltage Range		90-280VAC±3V (Inverter Mode) 170-280VAC±3V (UPS Mode)	
Frequency		50-60Hz Auto sensing	
Rated Output Power		8600W	11000W
Dual Output Power		8600W 8600W	11000W 11000W
Second Load Cut Off Voltage		44V	
Second Load Return Voltage		52V	
Output Voltage(AC)		220/230/240VAC±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		17200VA	22000VA
Overload Capacity(Battery Mode)		21s@105%~150% Load 11s@150%~200% Load 400ms@>200% Load	
Grid connected Operation	Output Voltage	220/230/240VAC (Feed-in Grid Voltage Range:195~253VAC)	
	Grid Voltage Range	195-253VA	
	Grid Frequency Range	49-51±1Hz/59-61±1Hz (Feed-in Grid Frequency Range: 49-51+1Hz/59-61+1Hz)	
	Output Current	34.7A	47.8A
	Power Factor Range	>0.99	
Peak Efficiency(Battery Model)		98%	
Normal Voltage		48VDC	
Constant Charging Voltage		56.4VDC	
Float Charging Voltage		54VDC	
PV Charging Way		MPPT	
Max PV Input Power		2*5500W	2*5500W
PV Input Voltage Range		90-500VDC	
MAX PV Input Voltage		500VDC	500VDC
MAX PV Input Current		18/18A	18/18A
MAX PV Charge Current		150A	150A
MAX AC Charge Current		120A	150A
MAX Charge Current		150A	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		-10~50°C	
Humidity		20%~95%(Non-condensing)	
Storage Temperature		-15~60°C	
Altitude		<1000m	
Noise(dB)		≤50db	