

PIONEERING SMART SOLAR POWER SOLUTIONS



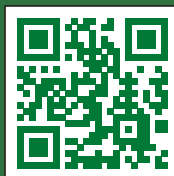
Zhejiang APsolway Technology Co., Ltd.,

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2025 | PRODUCT INTRODUCTION



ABOUT APsolway

Zhejiang APsolway Technology Co., Ltd. (APsolway)

APsolway is a subsidiary of Altemergy Power System Inc. (SSE STAR Market, Stock Code: 688348) and has been deeply involved in the global renewable energy industry for more than 10 years. Upholding the vision of “delivering high-quality products and meeting people’s power needs for off-grid living,” the company provides integrated intelligent PV and energy-storage system solutions to global customers, covering solar inverters, residential ESS, commercial & industrial ESS, and vehicle-mounted mobile energy systems.

As a national high-tech enterprise integrating R&D, manufacturing, and sales, APsolway is a well-recognized ODM manufacturer and SKD supplier, fully committed to supporting the growth of our customers’ brands. We focus on offering cost-effective, high-efficiency, and intelligent PV and energy-storage products to global users.

APsolway currently operates a 47,000 m² smart manufacturing facility, equipped with advanced R&D capabilities, intelligent production systems, and high-efficiency delivery capacity. APsolway continuously develops cutting-edge core technologies and has obtained over 100 patents and more than 30 international patent certifications. The company has been repeatedly recognized as a National High-Tech Enterprise and a National “Little Giant” Specialized and Innovative Enterprise.

To better serve the global market, APsolway conducts R&D and manufacturing in China while establishing service centers in multiple countries for localized support. The headquarters is located in Jiaxing, China, with service centers in Leipzig, Germany (Europe), Burkina Faso (West Africa), Iran (Middle East), and Cambodia (South Asia). Additional branches and subsidiaries will continue to be established in other major international markets.



10 years+
Production Experience



47000 m² +
smart manufacturing facility



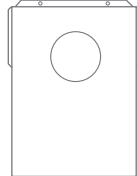
100 +
patents



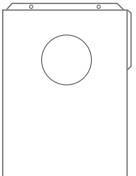
30 +
international patent certifications



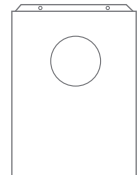
Perfect for home small business & commercial use



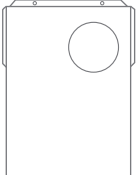
APS Series
12/24/48V
1.2/3.6/5/6.5/12KW



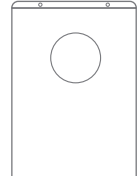
Single Phase
3/3.6/5KW
60V-300V PV Input
120Vac Output



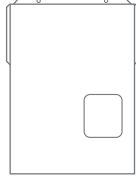
AHS Series
3.6/6.3/8/12/16kw 12/24/48V
80/85/105/135A



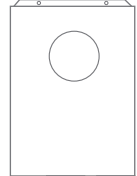
Split Phase
3/3.6/5.5/6.2/8.5/10.2KW
100V-500V PV Input
120Vac single phase
/240Vac split phase



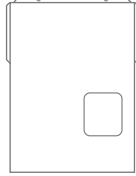
AHS-SP
kw 12/24/48V
80/85/105/135/170/250/330A



M Series
6.2/8.5/11KW
220V/230Vac Output



AHS-LV
5kw 12/24/48V
85/100/110A



EM Series
3.5/6.2/8.5/11KW
220V/230Vac Output

Single Phase Off-grid Inverter



Single Phase Off-grid Inverter

APS SERIES

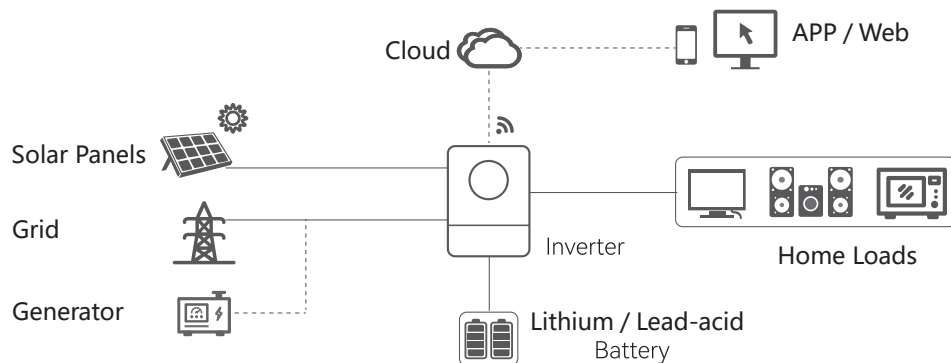
1.2/3.6kW-12/24V



- Built-in 100A Solar Charger
- Wide PV Input Voltage Range 17-500V
- Dual AC Output
- Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- Detachable Dust Cover
- Feed-in to Grid
- WiFi Monitoring(optional)



System Diagram



Technical Data

MODEL	APS800-12 S1.2	APS5000-24 S3.6D
AC INPUT		
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE	
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)	
Frequency (Hz)	50 / 60 (Auto Adaptive)	
AC OUTPUT		
Rated Capacity (kW)	1.2	3.6
Surge Power (kVA)	2.4	5.7
Voltage (VAC)	208 / 220 / 230 / 240	
Power Factor (PF)	1	
Frequency	50/60Hz±0.1%	
Switch Time (ms)	10 (APP/UPS/GEN mode)	10 (APP/UPS mode) / 20 (GEN mode)
Wave Form	Pure Sine Wave	
Overload Capacity (Battery Mode)	60s@102%-120% load; 10s@120%-20% load;	60s@102%-110% load; 10s@110%-130% load; 3s@130%-150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	90%@12VDC	92.7%@24VDC
Parallel Quantity	NA	
CHARGER (PV / AC)		
Solar Charger Type	MPPT	
Max PV input current / power	18A / 800W	18A / 5000W
MPPT Range@Operating Voltage (VDC)	17-115	40-450
Max PV Open Circuit Voltage (VDC)	115	500
Max PV Charge Current (A)	50	100
Max AC Charge Current (A)	50	100
Max. Charge Current (PV + AC) (A)	100	100
BATTERY		
Rated Voltage (VDC)	12	24
Floating Charge Voltage (VDC)	13.8	27
Overcharge Protection (VDC)	15	30.5
Battery Type	Lithium and Lead-acid	
INTERFACE		
HMI	LCD	
Interface	RS232 / USB / RS485(optional)	
Monitoring	WiFi (Optional)	
GENERAL DATA		
Ingress Protection	IP45	
Operating Temperature	-10 °C - 60 °C	
Relative Humidity	5% ~ 95% (Non-condensing)	
Storage Temperature	-15 °C - 60 °C	
Net Weight (kg)	3.5	6.2
Dimensions (W*H*D)	347*236*91mm	420*284*94mm
Max. Operating Altitude	4000m (Derating above 1000m)	

Single Phase Off-grid Inverter



Single Phase Off-grid Inverter

APS SERIES

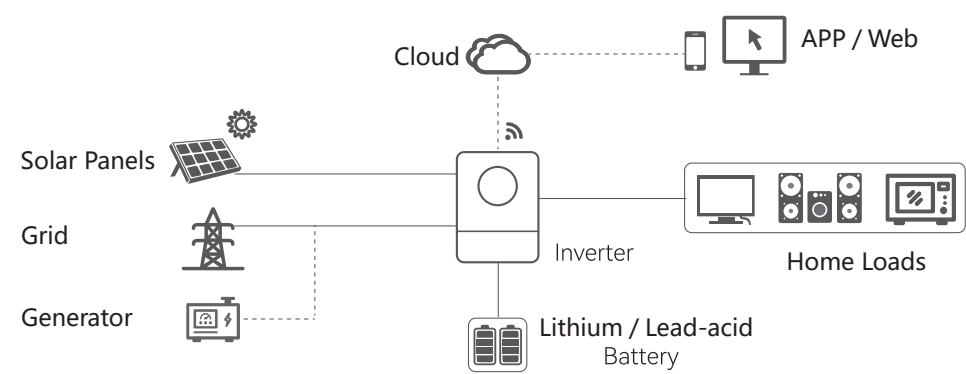
5/6.5kW-24/48V



- Built-in 160A Solar Charger
- Wide PV Input Voltage Range 60-520V
- 28A MAX PV Input
- Dual AC In & Dual AC Out*
- Support Meter/CT Connection
- Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- Support Generator ATS Control
- Feed-in to Grid
- WiFi Monitoring(optional/built-in)



System Diagram



Technical Data

MODEL	APS9000-24 S5.0	APS9000-48 Pro S6.5
AC INPUT		
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE	
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)	
Frequency (Hz)	50 / 60 (Auto Adaptive)	
AC OUTPUT		
Rated Capacity (kW)	5	6.5
Surge Power (kVA)	10	13
Voltage (VAC)	208 / 220 / 230 / 240	
Power Factor (PF)	1	
Frequency	50/60Hz±0.1%	
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)	
Wave Form	Pure Sine Wave	
Overload Capacity (Battery Mode)	1min@102%-120%load, 10s>120% load	10min@102%-120% Load, 1min@120%-150% Load 10S@150%-200% Load, 5s@>200% Load
Max. Efficiency (Battery Mode)	93.5%@24VDC	93%@48VDC
Parallel Quantity	NA	
CHARGER (PV / AC)		
Solar Charger Type	MPPT	
Max PV input current / power	27A / 9000W	28A / 9000W
MPPT Range@Operating Voltage (VDC)	60-450	60-450
Max PV Open Circuit Voltage (VDC)	500	520
Max PV Charge Current (A)	160	120
Max AC Charge Current (A)	160	120
Max. Charge Current (PV + AC) (A)	160	120
BATTERY		
Rated Voltage (VDC)	24	48
Floating Charge Voltage (VDC)	27	54
Overcharge Protection (VDC)	30.5	61
Battery Type	Lithium and Lead-acid	
INTERFACE		
HMI	LCD	
Interface	RS485 / RS232 / USB	RS485 / USB / Dry Contact / CT / Meter
Monitoring	WiFi (optional)	WiFi (built-in)
GENERAL DATA		
Ingress Protection	IP45	
Operating Temperature	-10 °C - 60 °C	-10 °C - 50 °C
Relative Humidity	5% ~ 95% (Non-condensing)	
Storage Temperature	-15 °C - 60 °C	
Net Weight (kg)	8.4	10.7
Dimensions (W*H*D)	410*336*110mm	514*338*136.5mm
Max. Operating Altitude	4000m (Derating above 1000m)	

Single Phase Off-grid Inverter



Single Phase Off-grid Inverter

APS SERIES

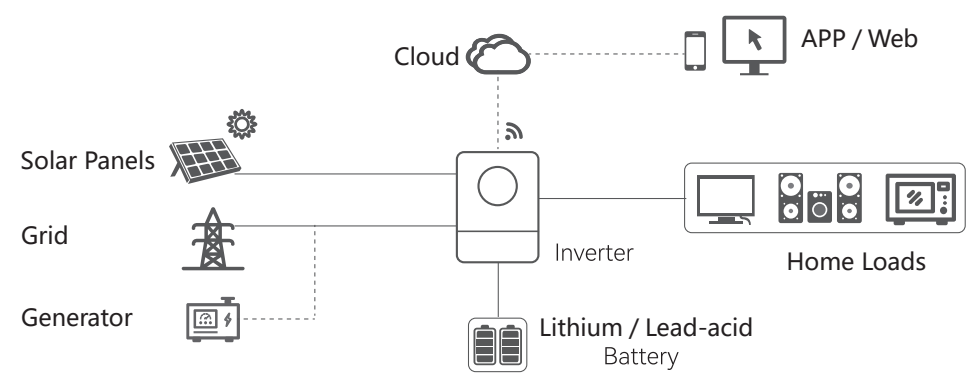
12kW-48V



- Built-in 160A Solar Charger
- Wide PV Input Voltage Range 60-500V
- Dual MPPTs Input
- 45A MAX PV Input
- Dual AC Output
- Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- 5 Inch Display
- Feed-in to Grid
- WiFi Monitoring(built-in)



System Diagram



Technical Data

MODEL	APS15000-48 S12.0
AC INPUT	
Rated Input Voltage (VAC)	220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC OUTPUT	
Rated Capacity (kW)	12
Surge Power (kVA)	24
Voltage (VAC)	220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (APP/UPS mode) / 20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%~125%Load 10s@ > 125%Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
CHARGER (PV / AC)	
Solar Charger Type Dual MPPTs	
Max. PV input Current / Input Power	Using One MPPT: 27A/9KW Using Two MPPTs: 22.5A/Per MPPT, 15kW/Total
MPPT Range@Operating Voltage (VDC)	60-450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	160
Max AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
BATTERY	
Rated Voltage (VDC)	50
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
INTERFACE	
HMI	LCD
Interface	RS485 / RS232 / USB
Monitoring	WiFi (built-in)
GENERAL DATA	
Ingress Protection	IP45
Operating Temperature	-10 °C - 60 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C - 60 °C
Net Weight (kg)	14.5
Dimensions (W*H*D)	480*410*120mm
Max. Operating Altitude	4000m (Derating above 1000m)

SOLAR BATTERY HYBRID CONTROLLER

AHS-3.6/6.3

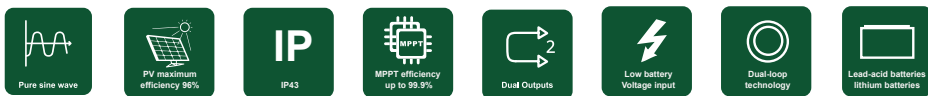
12/24/48V-3.6/6.3kW



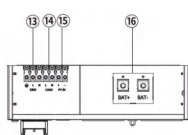
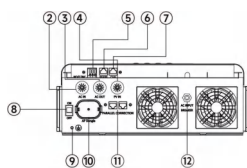
5 YEARS WARRANTY



- Low battery voltage input
- Reliable protection against short-circuit, overvoltage, undervoltage, overload, etc
- IP43 intelligent air-cooled design enhances system reliability and service life
- Multiple working modes: The priorities of PV power, utility power, and battery using the LCD screen
- DSP control, dual-loop technology, and pure sine-wave output
- Supports real-time monitoring via APP for intelligent and efficient energy management

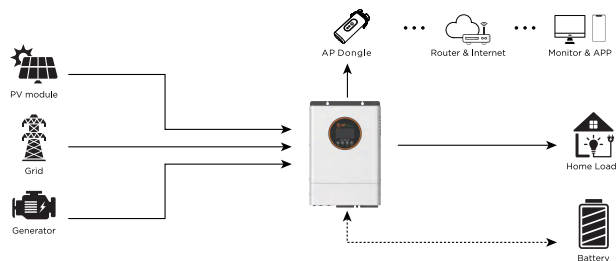


Bottom view



- LCD display
- AC input
- AC output
- PV input
- Dry contact
- RS485
- CAN
- Power on/off switch
- Ground
- AP Dongle
- Parallel communication ports
- AC Input Breaker
- Grid L/N/PE
- Load L/N
- PV input +/-
- BAT+/BAT-

System Diagram



Technical Data

MODEL	AHS-3.6		AHS-6.3			
Dimensions W/H/D	420mm × 284mm × 94mm		380mm × 576mm × 141mm			
Weight	6.2kg		12.8kg			
Ingress Protection	IP43					
Operating Ambient Temperature Range	-10°C to 55°C					
Storage Temperature Range	-15°C to 60°C					
Relative Humidity	5% to 95%					
Cooling	Air-cooled by smart fans					
Communication Interface	RS485/CAN					
Safety and EMC Compliance	EN/IEC62109-1/-2; EN/IEC-6-1/-2/-3/-4; EN/IEC62920					
BATTERY DATA						
Battery Voltage Type	12V	24V	48V			
Float Charging Voltage	13.5V	27V	54V			
Overcharging Protection Voltage	15V	30V	60V			
Battery Type	Lead-acid batteries / lithium batteries					
Charging Mode	Three-stage charging (lead-acid batteries); Default charge curve or BMS communication (lithium batteries)					
Max. DC Discharge Current	80A	135A	135A	135A		
Max. Charge Current (from PV)	80A	85A	105A	135A		
Max. Charge Current (from Grid)	80A	85A	105A	135A		
Max. Charge Current	80A	85A	105A	135A		
AC OUTPUT DATA						
Max. Output Apparent Power	600VA	1400VA	3600VA	1000VA	2500VA	6300VA
Peak Output Apparent Power	1200VA	2800VA	7200VA	2000VA	5000VA	12600VA
Output Waveform	Pure sine wave					
Nominal Output Voltage	220VAC/230VAC/240VAC					
Nominal Output Frequency	50Hz/60Hz					
Peak Efficiency (PV to Inverter)	97.7%					
Peak Efficiency (Battery to Inverter)	96.1%					
Switching Time	5ms(UPS) 20ms(APL)					
Overload Protection	(102% < load < 125%) ± 10%: Reports an error and turns off the output 5 minutes later. (125% < load < 150%) ± 10%: Reports an error and turns off the output 10 seconds later. (Load > 150%) ± 10%: Reports an error and turns off the output 5 seconds later.					
AC INPUT DATA						
Nominal Voltage	220VAC/230VAC/240VAC					
Operating Voltage Range	170 to 280VAC (UPS) 90 to 280VAC (APL)					
Nominal Frequency	50Hz/60Hz					
Power Factor (Default/Adjustable)	> 0.99 (adjustable from 0.8 leading to 0.8 lagging)					
Total Harmonic Distortion of Current	< 3%					
Grid Connection	Single phase					
Max. Bypass Overload Current	40A					
PV INPUT DATA						
Max. PV Input Power	6500W					
Number of MPPTs	1					
Max. Input Voltage	500VDC					
MPPT Voltage Range	60 to 450VDC					
Max. PV Input Current	22A					
MPPT Efficiency	99.9%					

Product specifications are subject to change without further notice.

5 YEARS WARRANTY



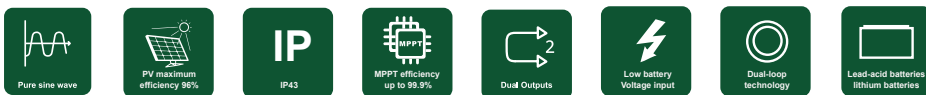
SOLAR BATTERY HYBRID CONTROLLER

AHS-8/12/16

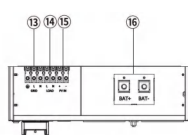
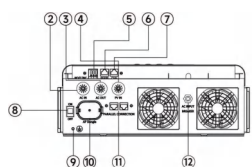
48V 10kW-8/12/16kW



- Low battery voltage input
- Reliable protection against short-circuit, overvoltage, undervoltage, overload, etc
- IP43 intelligent air-cooled design enhances system reliability and service life
- Multiple working modes: The priorities of PV power, utility power, and battery using the LCD screen
- DSP control, dual-loop technology, and pure sine-wave output
- Supports real-time monitoring via APP for intelligent and efficient energy management

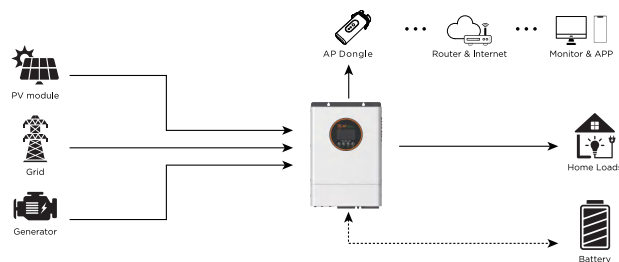


Bottom view



- LCD display
- AC input
- AC output
- PV input
- Dry contact
- RS485
- CAN
- Power on/off switch
- Ground
- AP Dongle
- Parallel communication ports
- AC Input Breaker
- Grid L/N/PE
- Load L/N
- PV input +/-
- BAT+/BAT-

System Diagram



Technical Data

MODEL	AHS-8	AHS-12	AHS-16
Dimensions W/H/D	480mm × 410mm × 120mm	480mm × 410mm × 120mm	540mm × 415mm × 122mm
Weight	14.5kg	14.5kg	15.5kg
Ingress Protection		IP43	
Operating Ambient Temperature Range		-10°C to 55°C	
Storage Temperature Range		-15°C to 60°C	
Relative Humidity		5% to 95%	
Cooling		Air-cooled by smart fans	
Communication Interface		RS485/CAN	
Safety and EMC Compliance		EN/IEC62109-1/-2; EN/IEC-6-1/-2/-3/-4; EN/IEC62920	
BATTERY DATA			
Battery Voltage Type		48V	
Float Charging Voltage		54V	
Overcharging Protection Voltage		60V	
Battery Type		Lead-acid batteries / lithium batteries	
Charging Mode		Three-stage charging (lead-acid batteries); Default charge curve or BMS communication (lithium batteries)	
Max. DC Discharge Current	170A	250A	330A
Max. Charge Current (from PV)	170A	250A	330A
Max. Charge Current (from Grid)	170A	250A	330A
Max. Charge Current	170A	250A	330A
AC OUTPUT DATA			
Max. Output Apparent Power	8000VA	12000VA	16000VA
Peak Output Apparent Power	16000VA	24000VA	32000VA
Output Waveform		Pure sine wave	
Nominal Output Voltage		220VAC/230VAC/240VAC	
Nominal Output Frequency		50Hz/60Hz	
Peak Efficiency (PV to Inverter)		97.7%	
Peak Efficiency (Battery to Inverter)		96.1%	
Switching Time		5ms(UPS) 20ms(APL)	
Overload Protection		(102% < load < 110%) ± 10%: Reports an error and turns off the output 5 minutes later. (110% < load < 125%) ± 10%: Reports an error and turns off the output 10 seconds later. (Load > 125%) ± 10%: Reports an error and turns off the output 5 seconds later.	
AC INPUT DATA			
Nominal Voltage		220VAC/230VAC/240VAC	
Operating Voltage Range		170 to 280VAC (UPS) 90 to 280VAC (APL)	
Nominal Frequency		50Hz/60Hz	
Power Factor (Default/Adjustable)		> 0.99 (adjustable from 0.8 leading to 0.8 lagging)	
Total Harmonic Distortion of Current		< 3%	
Grid Connection		Single phase	
Max. Bypass Overload Current	60A	80A	200A
PV INPUT DATA			
Max. PV Input Power	10000W	15000W	25600W
Number of MPPTs	2	2	3
Max. Input Voltage	500VDC	500VDC	500VDC
MPPT Voltage Range	60 to 450VDC	60 to 450VDC	60 to 450VDC
Max. PV Input Current	22A+22A	27A+27A	36A+36A+36A
MPPT Efficiency	99.9%	99.9%	99.9%

Product specifications are subject to change without further notice.

SOLAR BATTERY HYBRID CONTROLLER

AHS-6.3/12/16-SP

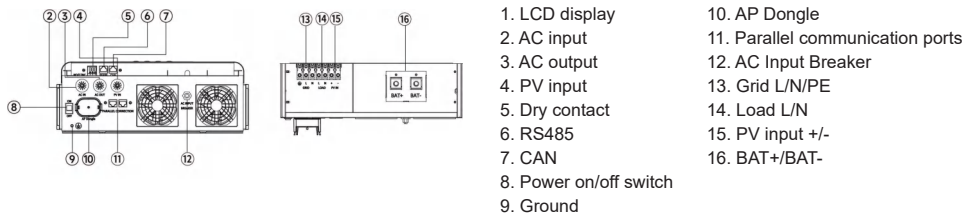
12/24/48V-6.3/12/16kW



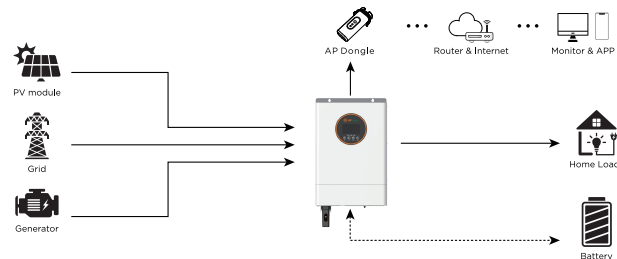
- Low battery voltage input
- Reliable protection against short-circuit, overvoltage, undervoltage, overload, etc
- IP43 intelligent air-cooled design enhances system reliability and service life
- Multiple working modes: The priorities of PV power, utility power, and battery using the LCD screen
- DSP control, dual-loop technology, and pure sine-wave output
- Supports real-time monitoring via APP for intelligent and efficient energy management



Bottom view



System Diagram



Technical Data

MODEL	AHS-6.3-SP	AHS-12-SP	AHS-16-SP	
Dimensions W/H/D	380mm × 576mm × 141mm	480mm × 410mm × 120mm	540mm × 415mm × 122mm	
Weight	12.8kg	14.5kg	15.5kg	
Ingress Protection	IP43			
Operating Ambient Temperature Range	-10°C to 55°C			
Storage Temperature Range	-15°C to 60°C			
Relative Humidity	5% to 95%			
Cooling	Air-cooled by smart fans			
Communication Interface	RS485/CAN			
Safety and EMC Compliance	EN/IEC62109-1/-2; EN/IEC-6-1/-2/-3/-4; EN/IEC62920			
BATTERY DATA				
Battery Voltage Type	12V	24V	48V	48V
Float Charging Voltage	13.5V	27V	54V	54V
Overcharging Protection Voltage	15V	30V	60V	60V
Battery Type	Lead-acid batteries / lithium batteries			
Charging Mode	Three-stage charging (lead-acid batteries); Default charge curve or BMS communication (lithium batteries)			
Max. DC Discharge Current	135A	135A	135A	250A
Max. Charge Current (from PV)	85A	105A	135A	250A
Max. Charge Current (from Grid)	85A	105A	135A	250A
Max. Charge Current	85A	105A	135A	250A
AC OUTPUT DATA				
Max. Output Apparent Power	1000VA	2500VA	6300VA	12000VA
Peak Output Apparent Power	2000VA	5000VA	12600VA	24000VA
Output Waveform	Pure sine wave			
Nominal Output Voltage	110VAC/220VAC, 115VAC/230VAC, 120VAC/240VAC			110/220VAC, 120/240VAC
Nominal Output Frequency	50Hz/60Hz			
Peak Efficiency (PV to Inverter)	97.7%			
Peak Efficiency (Battery to Inverter)	96.1%			
Switching Time	5ms(UPS) 20ms(APL)			
Overload Protection	(102% < load < 125%) ± 10%: Reports an error and turns off the output 5 minutes later. (125% < load < 150%) ± 10%: Reports an error and turns off the output 10 seconds later. (Load > 150%) ± 10%: Reports an error and turns off the output 5 seconds later.		(102% < load < 110%) ± 10%: Reports an error and turns off the output 5 minutes later. (110% < load < 125%) ± 10%: Reports an error and turns off the output 10 seconds later. (Load > 125%) ± 10%: Reports an error and turns off the output 5 seconds later.	
AC INPUT DATA				
Nominal Voltage	110VAC/220VAC, 115VAC/230VAC, 120VAC/240VAC			110/220VAC, 120/240VAC
Operating Voltage Range	L-N: 90 to 140VAC (UPS) 85 to 140VAC (APL) L-L: 170 to 280VAC (UPS) 90 to 280VAC (APL)			
Nominal Frequency	50Hz/60Hz			
Power Factor (Default/Adjustable)	> 0.99 (adjustable from 0.8 leading to 0.8 lagging)			
Total Harmonic Distortion of Current	< 3%			
Grid Connection	Single phase			
Max. Bypass Overload Current	40A	80A	200A	
PV INPUT DATA				
Max. PV Input Power	6500W	15000W	25600W	
Number of MPPTs	1	2	3	
Max. Input Voltage	500VDC	500VDC	500VDC	
MPPT Voltage Range	60 to 450VDC	60 to 450VDC	60 to 450VDC	
Max. PV Input Current	22A	27A+27A	36A+36A+36A	
MPPT Efficiency	99.9%	99.9%	99.9%	

Product specifications are subject to change without further notice.

Single Phase Hybrid Inverter

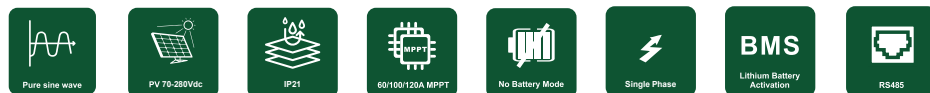
Single Phase Hybrid Inverter

SINGLE PHASE

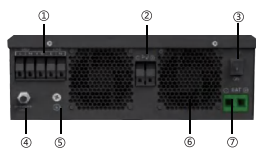
60V-300V PV Input and
3kW/3.6KW5KW 120Vac Output



- Built in dustproof components
- Capable to operate without Battery
- Wider PV input voltage range:60V~300Vdc
- Excellent solar MPPT performance, efficiency up to 99%
- PV generated energy Total and Daily information
- Battery wake-up function
- Excess solar energy can be powered to Grid (settable)

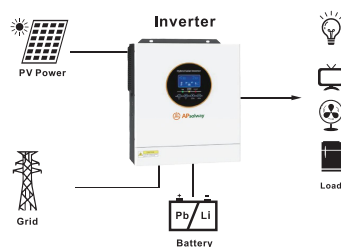


Bottom view

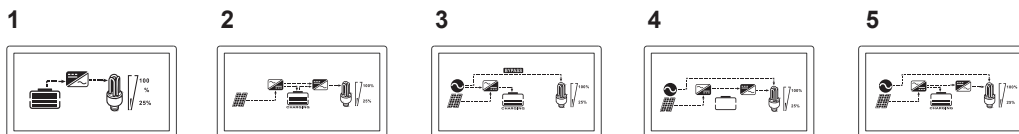


- 1.GAID&LOAD
- 2.PV Port
- 3.ON/OFF Rocker Switch
- 4.Overload Protector
- 5.GroundingScrewHole
- 6.Cooling Fan
- 7.Battery Port

System Diagram



Working Mode



Technical Data

MODEL	3K24/48-S120	3.6K24/48-S120	5K48-S120
PV ARRAY			
Max.PV Array Power	3600W	4200W	6000W
MaxPV Array Open-Circuit Voltage	300VDC		
Start-up Voltage	60VDC		
MPPT Operating Voltage Range	70-280VDC		
MPPT Efficiency	99%		
Nominal Input Voltage	250VDC		
Max. input Current MPPT	30A		
BATTERY			
Battery Type	Li-ion/Lead-acid		
Nominal Battery Voltage	24/48V	48V	
Battery Voltage Range	21-29/41-58V		42-58V
Max. AC Charging Current	40A	50A	50A
Max. PV Charging Current	80A	100A	100A
Max, Continuous Discharging Current	100A	100A	120A
AC INPUT			
Nominal Voltage	120Vac		
Voltage Range	90-140Vac		
Frequency	50/60Hz (Auto following)		
High Loss Frequency	65Hz		
Low Loss Frequency	45Hz		
Max. input Current	40A		50A
AC OUTPUT			
Nominal Voltage	120Vac ± 5%		
Output Voltage Waveform	Pure Sine Wave		
Rated Output Power	3000VA/3000W	3600VA/3600W	5000VA/5000W
Peak Output Power	4500VA	5400VA	7500VA
Nominal Output Frequency	50/60Hz		
Transfer Time	10ms		
Max. PV to AC Efficiency	96.5%		
Max. Battery to AC Efficiency	91.0%		
PROTECTION			
Over Temperature Protection	Yes		
Overload Protection	3s@≥150% load;10s@110%~150% load		
GENERAL DATA			
Operating Temperature Range	-10--+50°C		
Safety Certification	CE		
Relative Humidity	0~95%Relative Humidity(Non-condensing)		
Max. Operating Altitude	< 4000m		
Cooling Method	Intelligent Fan cooling		
Display	LED+LCD		
Degree of Protection	IP21		
Weight(kg)	6.5		8.4
Dimension(W*H*Dmm)	326*275*95		363*105*300
Mounting Method	Wall Mounted		

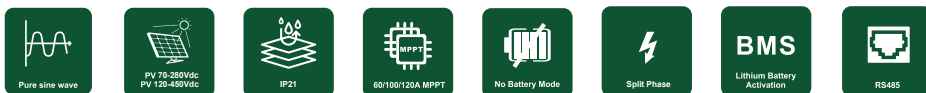
Split Phase Hybrid Inverter

SPLIT PHASE

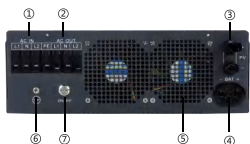
3/3.6KW-D120 with 100V-500V PV Input and 120Vac single phase/240Vac split phase



- Built in dustproof components
- 120Vac single phase and 240Vac split phase
- Capable to operate without Battery
- Wider PV input voltage range:100V~500Vdc
- Excellent solar MPPT performance, efficiency up to 99%
- PV generated energy Total and Daily information
- Battery wake-up function
- Capable to communicate with battery BMS by RS-485 interface
- Excess solar energy can be powered to Grid (settable)

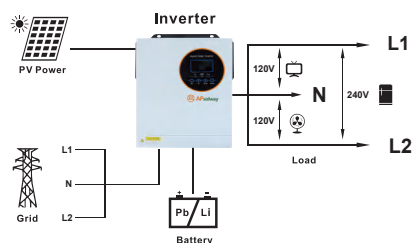


Bottom view



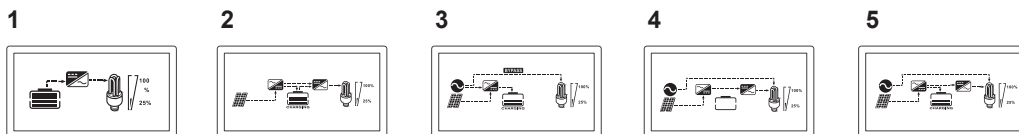
1. AC input
2. AC output
3. PV input
4. Battery input
5. Cooling Fan
6. Grounding
7. Power on/off switch

System Diagram



MODEL	3K24/48-D120	3.6K24/48-D120
PV ARRAY		
Max.PV Array Power	3600W	4200W
MaxPV Array Open-Circuit Voltage	300/500VDC	
Start-up Voltage	60/100VDC	
MPPT Operating Voltage Range	70-280/120-450VDC	
Nominal Input Voltage	250/360VDC	
Max. input Current MPPT	30/18A	
MPPT max Efficiency	99%	
BATTERY		
Battery Type	Li-ion/Lead-acid	
Nominal Battery Voltage	24/48V	
Battery Voltage Range	21-29/41-58V	
Max. AC Charging Current	40A	50A
Max. PV Charging Current	80A	100A
Max, Continuous Discharging Current	100/80A	100/120A
AC INPUT		
Nominal Voltage	240Vac (split phase)	
Voltage Range	180-280Vac	
Frequency	50/60Hz (Auto following)	
Max. input Current	40A	
AC OUTPUT		
Nominal Voltage	120Vac+5%/240Vac+5%	
Output Voltage Waveform	Pure Sine Wave	
Rated Output Power	3000VA/3000W	3600VA/3600W
Peak Output Power	4500VA	5300VA
Nominal Output Frequency	50/60Hz	
Transfer Time	10ms	
Efficiency(peak) PV to INV	96.5%	
Efficiency(peak) BAT to INV	93.0%	
PROTECTION		
Over Temperature Protection	Yes	
Overload Protection	3s@≥150% load;10s@110%~150% load	
GENERAL DATA		
Operating Temperature Range	-10--+50°C	
Relative Humidity	0~95%	
Max. Operating Altitude	< 4000m	
Cooling Method	Intelligent Fan cooling	
Display	LED+LCD	
Communication with BMS	RS485	
Communication with Cloud	WIFI/4G	
Degree of Protection	IP21	
Weight(kg)	9	10
Dimension(W*H*Dmm)	373*105*300	
Mounting Method	Wall Mounted	

Working Mode



Split Phase Hybrid Inverter

SPLIT PHASE

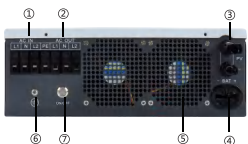
5.5/6.2KW-D120 with 100V-500V PV Input and 120Vac single phase/240Vac split phase



- Built in dustproof components
- 120Vac single phase and 240Vac split phase
- Capable to operate without Battery
- Wider PV input voltage range:100V~500Vdc
- Excellent solar MPPT performance, efficiency up to 99%
- PV generated energy Total and Daily information
- Battery wake-up function
- Capable to communicate with battery BMS by RS-485 interface
- Excess solar energy can be powered to Grid (settable)

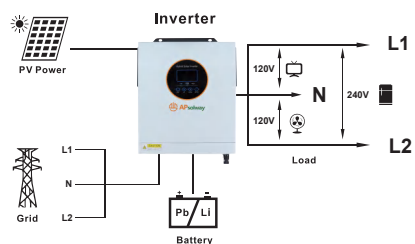


Bottom view

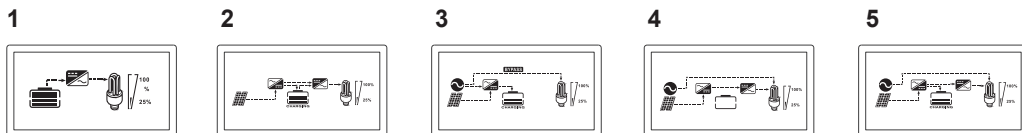


1. AC input
2. AC output
3. PV input
4. Battery input
5. Cooling Fan
6. Grounding
7. Power on/off switch

System Diagram



MODEL	5.5K48-D120	6.2K48-D120
PV ARRAY		
Max.PV Array Power	6600W	7200W
MaxPV Array Open-Circuit Voltage	500VDC	
Start-up Voltage	100VDC	
MPPT Operating Voltage Range	120-450VDC	
Nominal Input Voltage	360VDC	
Max. input Current MPPT	18A	
MPPT max Efficiency	99%	
BATTERY		
Battery Type	Li-ion/Lead-acid	
Nominal Battery Voltage	48V	
Battery Voltage Range	41-58V	
Max. AC Charging Current	50A	
Max. PV Charging Current	100A	
Max, Continuous Discharging Current	120A	
AC INPUT		
Nominal Voltage	240Vac (split phase)	
Voltage Range	180-280Vac	
Frequency	50/60Hz (Auto following)	
Max. input Current	40A	
AC OUTPUT		
Nominal Voltage	120Vac+5%/240Vac+5%	
Output Voltage Waveform	Pure Sine Wave	
Rated Output Power	5500VA/5500W	6200V6200W
Peak Output Power	8000VA	8800VA
Nominal Output Frequency	50/60Hz	
Transfer Time	10ms	
Efficiency(peak) PV to INV	96.5%	
Efficiency(peak) BAT to INV	93.0%	
PROTECTION		
Over Temperature Protection	Yes	
Overload Protection	3s@≥150% load;10s@110%~150% load	
GENERAL DATA		
Operating Temperature Range	-10--+50°C	
Relative Humidity	0~95%	
Max. Operating Altitude	< 4000m	
Cooling Method	Intelligent Fan cooling	
Display	LED+LCD	
Communication with BMS	RS485	
Communication with Cloud	WIFI/4G	
Degree of Protection	IP21	
Weight(kg)	10	
Dimension(W*H*Dmm)	373*105*300	
Mounting Method	Wall Mounted	



Split Phase Hybrid Inverter



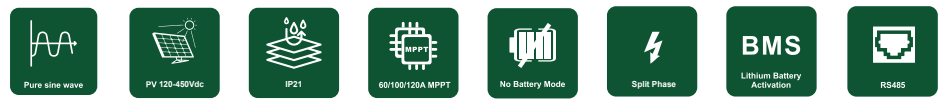
Split Phase Hybrid Inverter

SPLIT PHASE

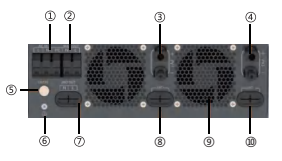
8.5/10.2KW-G2 with dual MPPTs and 8.5KW/10.2KW 230Vac dual output



- Built-in anti-dust kit for harsh environment
- Inverter can run without Battery
- Dual MPPTS input and Dual AC output
- On Off Grid Work Mode
- Dual communication ports for Battery and Wifi
- Built-in Li battery automatic activation
- PV generated energy Total and Daily information
- Excess solar energy can be powered to Grid (settable)

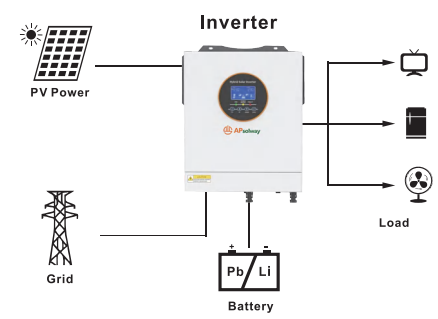


Bottom view

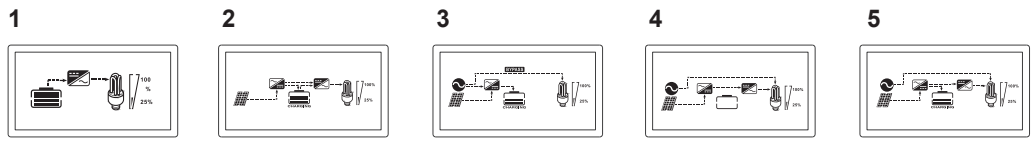


- 1.AC in
- 2.Main Out
- 3.PV1
- 4.PV2
- 5.ON/OFF Switch
- 6.Grounding ScrewHole
- 7.2ND OUT
- 8.Battery +
- 9.Cooling Fan
- 10.Battery -

System Diagram



Working Mode



Technical Data

MODEL	8.5K48-G2	10.2K48-G2
PV ARRAY		
Max.PV Array Power	5400W+5400W	
MaxPV Array Open-Circuit Voltage	500VDC	
Start-up Voltage	100VDC	
MPPT Operating Voltage Range	120-450VDC	
Nominal Input Voltage	360VDC	
Max. input Current MPPT	18A*2	
MPPT max Efficiency	99%	
BATTERY		
Battery Type	Li-ion/Lead-acid	
Nominal Battery Voltage	48V	
Battery Voltage Range	41-58V	
Max. AC Charging Current	70A	
Max. PV Charging Current	160A	
Max, Continuous Discharging Current	180A	200A
AC INPUT		
Nominal Voltage	230VAC	
Voltage Range	170-275VAC	
Frequency	50/60Hz (Auto following)	
Max. input Current	40A	50A
AC TWO LOAD OUTPUT		
Nominal Voltage	220/230VAC±5%	
Output Voltage Waveform	Pure Sine Wave	
Full Load	8500VA	10200VA
Max.Main Load	8500VA	10200VA
Max.2nd Load	8500VA	10200VA
Max.Load Cut Off Voltage (battery mode)	54V DC (adjustable)	
Max.Load Return Voltage (battery mode)	54V DC (adjustable)	
Peak Output Power	11000VA	14000VA
Nominal Output Frequency	50/60Hz	
Transfer Time	10ms	
Efficiency(peak) PV to INV	97.0%	
Efficiency(peak) BAT to INV	94.0%	
GENERAL DATA		
Operating Temperature Range	-10--+50°C	
Relative Humidity	0~95%	
Max. Operating Altitude	< 4000m	
Cooling Method	Intelligent Fan cooling	
Display	LED+LCD	
Communication with BMS	RS485	
Communication with Cloud	WIFI/4G	
Degree of Protection	IP21	
Weight(kg)	11	11.5
Dimension(W*H*Dmm)	389*105*310	
Mounting Method	Wall Mounted	

HYBRID SOLAR INVERTER
M Series(PV 60-500V DC)

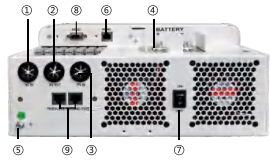
6.2KW 220V/230Vac Output



- Compatible work with lifepo4 battery
- Parallel operation up to 12 units in 1phase or 3phase
- Direct Plug WIFI Dongle Supported-No additional cables required just plug and play
- Pure sine wave
- Power factor 1.0
- PV input 500Vdc Max
- Built-in MPPT 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 lifecycl

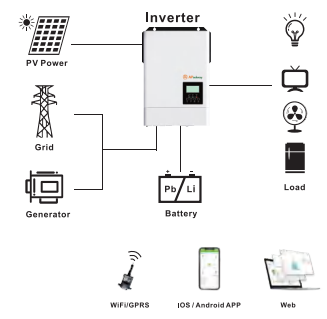


Bottom view

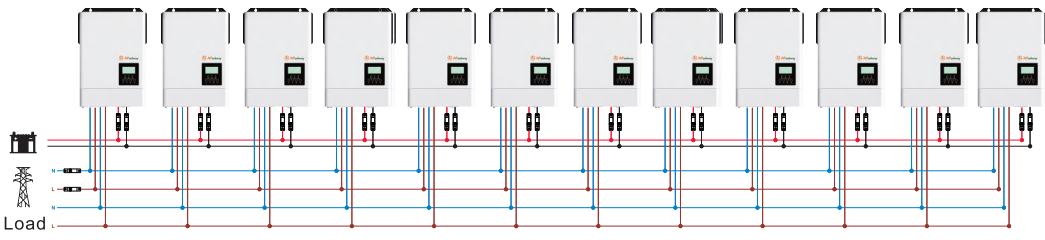


1. AC input
2. AC output
3. PV input
4. Battery input
5. Grounding
6. RS485 communication port
7. Power on/off switch
8. RS232 communication port
9. Parallel communication port

System Diagram



Parallel 12 Units Max



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)
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°C to 50°C)
Storage Temperature	(-15°C ~ 50°C)
Humidity	5% to 95% Relative Humidity (Non-condensing)

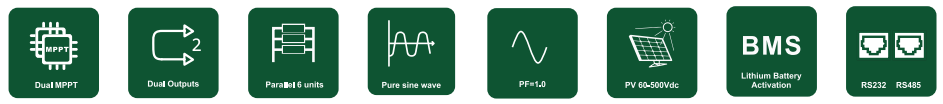
Product specifications are subject to change without further notice.

HYBRID SOLAR INVERTER
M Series(PV 60-500V DC)

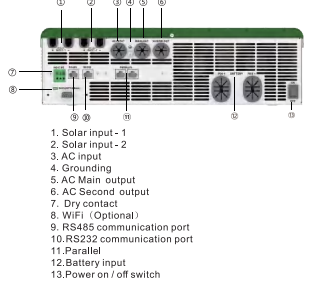
8.5/11KW 220V/230Vac Output



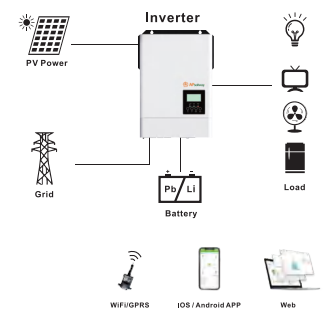
- Dual AC output
- Built-in 2 MPPT
- Parallel max up to 6 units
- Lithium battery activation function by PV or Utility
- Compatible work with LiFePO4 battery via RS485
- Pure Sine Wave
- Power factor 1.0
- PV Input 500Vdc Max
- Built-in MPPT140A/160A
- Capable to work without battery-Detachable dust 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



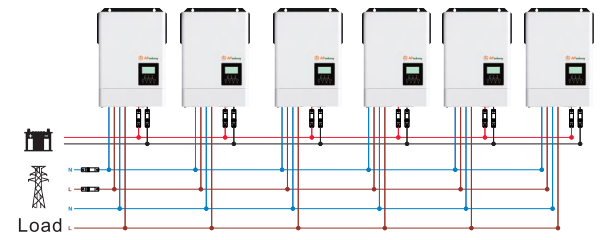
Bottom view



System Diagram



Parallel 6 Units Max



MODEL	M8500T-48PL	M11000T-48PL
CAPACITY	8.5KVA/8.5KW	11KVA/11KW
Maximum PV Input Power	10KW	11KW
Twin AC Output Function	YES	YES
Maximum Main Output Power	8.5KVA/8.5KW	11KVA/11KW
Maximum Second Output Power	5KVA/5KW	5KVA/5KW
Maximum Total Output Power	8.5KVA/8.5KW	11KVA/11KW
Parallel Capability	YES, 6units	YES, 6units
Lithium Battery Communication	YES(RS485)	YES(RS485)
Lithium Battery Activation	YES(By PV or Utility)	YES(By PV or Utility)
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	
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)	
Grid-tie Operation	NO	
BATTERY		
Battery Voltage	48VDC	48VDC
Maximum Discharge Current	180A	220A
Floating Charge Voltage	54VDC	54VDC
OverCharge Protection	63VDC	63VDC
Charging Method	CC/CV	CC/CV
Solar Charger & AC Charger		
Solar Charger TYPE	MPPT	MPPT
Max.PV Array Power	5000W*2	5000W*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)	540*415*122	540*415*122
Net Weight (Kgs)	14.5	15.5
Communication Interface	RS232/RS485/Dry-contact	RS232/RS485/Dry-contact
LCD	YES	YES
ENVIRONMENT		
Operating Temperature Range	-10°C to 50°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	

Product specifications are subject to change without further notice.

HYBRID SOLAR INVERTER
EM Series(PV 60-500V DC)

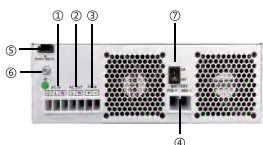
3.5/6.2KW 220V/230Vac Output



- 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 MPPT60A/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

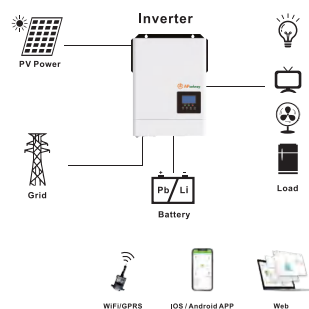


Bottom view

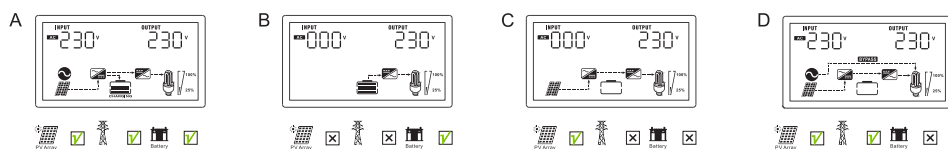


1. AC input
2. AC output
3. PV input
4. Battery input
5. RS232 / RS485 communication port
6. Grounding
7. Power on/off switch

System Diagram



Working Mode



MODEL	EM3500-24L	EM6200-48L
Capacity	3.5KVA/3.5KW	6.2KVA/6.2KW
Parallel Capability	NO	NO
Lithium Battery activation	YES (By PV or Utility)	YES (By PV or Utility)
Lithium Battery communication	YES(RS485)	
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	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	48VDC
Floating Charge Voltage	27VDC	54VDC
OverCharge Protection	33VDC	63VDC
Charging Method	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	60VDC~500VDC	
Max.Solar Input Current	15A	27A
Max.Solar Charge Current	100A	120A
Max.AC Charge Current	80A	80A
Max.Charge Current (PV+AC)	100A	120A
PHYSICAL		
Dimensions,D x W x H(mm)	358*295*100	438*295*105
Package Dimensions,D x W x H(mm)	465*380*175	560*375*185
Net Weight(Kg)	7	9
Communication Interface	RS232 / RS485	
ENVIRONMENT		
Operating Temperature Range	(-10°C to 50°C)	
Storage Temperature	(-15°C ~ 50°C)	
Humidity	5% to 95% Relative Humidity (Non-condensing)	

Product specifications are subject to change without further notice.

HYBRID SOLAR INVERTER EM Series(PV 60-500 VDC)

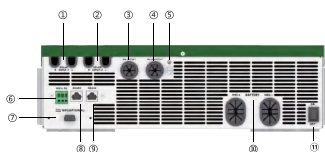
8.5/11KW 220V/230Vac output



- Built-in 2 MPPT
- Lithium battery activation function by Py 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: UTL,SOLS,BU,SUB
- EQ function to optimize battery performance and extend lifecycle

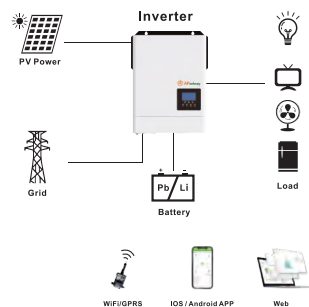


Bottom view



1. Solar input - 1
2. Solar input - 2
3. AC input
4. AC output
5. Grounding
6. Dry contact
7. WiFi(Optional)
8. RS485 communication port
9. RS232 communication port
10. Battery input
11. Power on / off switch

System Diagram



MODEL	EM8500-48L	EM11000-48L
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)	
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	
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)	
Grid-tie Operation	NO	
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)	540*415*122	540*415*122
Net Weight (Kgs)	14	15
Communication Interface	RS232/RS485/DRY CONTACT	
LCD	YES	
ENVIRONMENT		
Operating Temperature Range	-10°C to 50°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity (Non-condensing)	

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