



PIONEERING SMART SOLAR POWER SOLUTIONS



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SOLAR OFF GRID INVERTER (IPS/APS)



ABOUT APsolway

Zhejiang APsolway Technology Co., Ltd. (APsolway)

APsolway is a subsidiary of Altenergy 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

Built to Outlast, Easy to Assemble

Modular SKD Design for Faster Installation and Long-Term Reliability



Simple Structure,
Simpler Assembly



Easier
Maintenance



Better Durability,
More Reliable
Performance



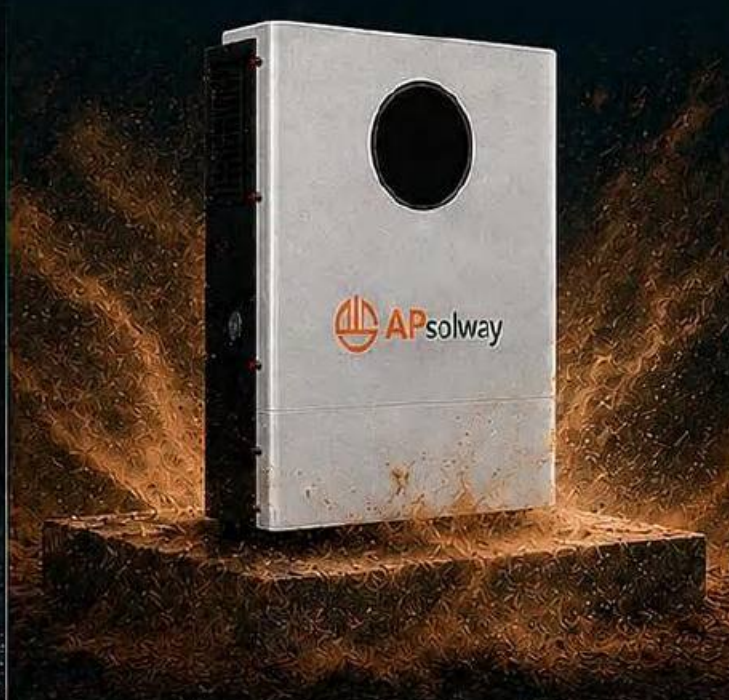
EXTREME WEATHER RESILIENCE

IP54 and IP43 protection-All weather protection



WATERPROOF

Splash-water protection



**DUSTPROOF /
/SAND RESISTANCE**

Dust & sand resistance



PREDATOR-PROOF SHIELD



GECKOS



COCKROACHES



INSECTS

HEAT TEMPERATURE PROTECTION

Engineered to perform in extreme heat
and deliver stable, lasting protection.



ADVANCED
COOLING SYSTEM



HIGH-TEMPERATURE RESISTANCE

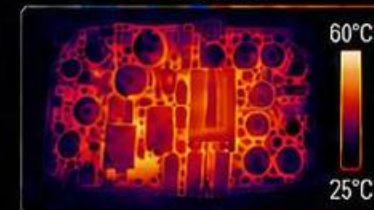


60°C

Max. Ambient
Temperature

SAME TEST CONDITION
60°C AMBIENT TEMPERATURE

APSolway (OURS)



✓ Slower temperature rise
higher efficiency

OTHERS



✗ Faster temperature rise
lower efficiency



Optimized Thermal Design



Reduced Hotspots



ALL-SCENARIO ENERGY SOLUTION

Stable Power Under Weak Grid



**FLEXIBLE
MULTI-SOURCE**



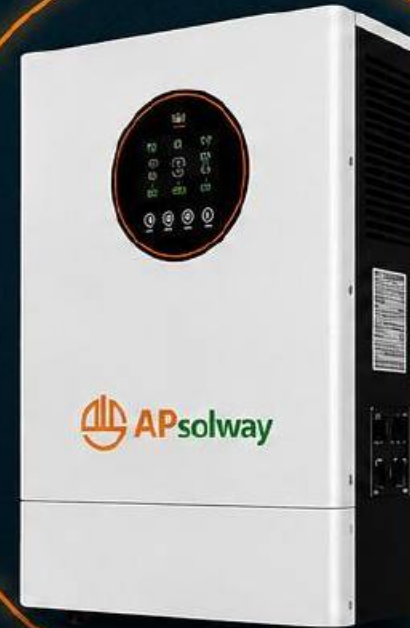
WIDE VOLTAGE RANGE
220V $\pm$ 20%



**200%
SURGE CAPACITY**



Solar



Battery



Home



Business



Off-Grid



Backup Power



IPS3600-5000

Single Phase Off-grid Inverter

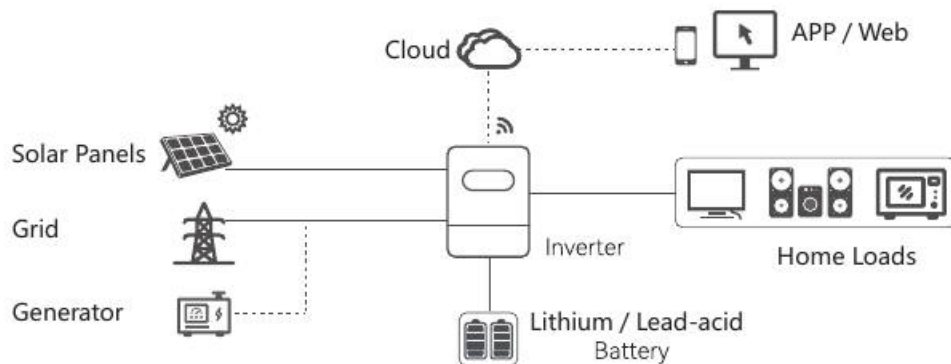
It is applicable to 208/220/230/240V voltage systems



- Built-in 160A Solar Charger.
- Wide PV Input Voltage Range 40-450V.
- 27A MAX PV Input.
- Dual AC Output.
- Support Meter
- Support Lithium/Lead-acid Batter.
- Lithium Battery Activation.
- Support Generator ATS Control.
- Feed-in to Grid.
- WiFi Monitoring(optional/built-in).



System Diagram



Technical Data

MODEL	IPS3600-24	IPS5000-24
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)	3.6	5
Surge Power (kVA)	7.2	10
Voltage (VAC)	208 / 220 / 230 / 240	
Power Factor (PF)	1	
Frequency	50/60Hz±0.1%	
Switch Time (ms)	10 (APP/UPS mode) / 20 (GEN mode)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave	
Overload Capacity (Battery Mode)	60s@102%-110% load, 10s@110%-130% load, 3s@130%-150% load, 0.2s@>150% load	1min@102%-120%load, 10s>120% load
Max. Efficiency (Battery Mode)	92.7%@24VDC	93.5%@24VDC
Parallel Operation Support	NA	
Charger (PV / AC)		
Solar Charger Type	MPPT	
Max PV input current / power	18A / 5000W	27A / 9000W
MPPT Range@Operating Voltage (VDC)	40-450	60-450
Max PV Open Circuit Voltage (VDC)	500	500
Max PV Charge Current (A)	100	160
Max AC Charge Current (A)	100	160
Max. Charge Current (PV + AC) (A)	100	160
Battery		
Rated Voltage (VDC)	24	24
Floating Charge Voltage (VDC)	27	27
Overcharge Protection (VDC)	30.5	30.5
Battery Type	Lithium and Lead-acid	
Interface		
HMI	LCD/RGB	
Interface	RS485 / CAN / RS232	RS485 / CAN / RS232
Monitoring	WiFi (Optional)	WiFi (optional)
General Data		
Ingress Protection	IP54	
Warranty	2 years	
Operating Temperature	-10 °C ~ 60 °C	
Relative Humidity	5% ~ 95% (Non-condensing)	
Storage Temperature	-15 °C ~ 60 °C	
Net Weight (kg)	6.2	8.4
Dimensions (W*H*D)	420*284*94mm	410*336*110mm
Max. Operating Altitude	4000m (Derating above 1000m)	

Product specifications are subject to change without further notice.



IPS6500

Single Phase Off-grid Inverter

It is applicable to 208/220/230/240V voltage systems

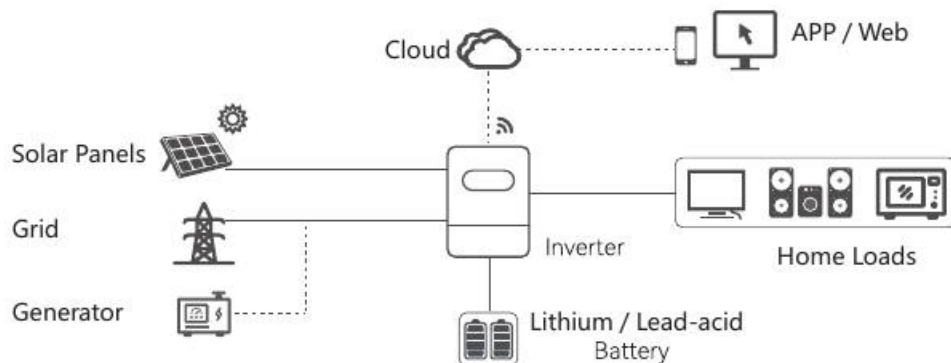


- Built-in 120A Solar Charger.
- Wide PV Input Voltage Range 60~450V.
- 28A MAX PV Input.
- Dual AC Output.
- Support Meter/CT Connection.
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- Support Generator ATS Control.
- Feed-in to Grid.
- WiFi Monitoring(optional/built-in).

SKD available



System Diagram



Technical Data

MODEL	IPS6500-48
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal model), 170~280±3 (UPS model)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	6.5
Surge Power (kVA)	13
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal model) / 10 (UPS model)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	10min@102%-120% Load, 1min@120%-150% Load 10S@150%-200% Load, 5s@ 200% Load
Max. Efficiency (Battery Mode)	93%@48VDC
Parallel Operation Support	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input current / power	28A / 9000W
MPPT Range/Operating Voltage (VDC)	60~450
Max PV Open Circuit Voltage (VDC)	520
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD/RGB
Interface	RS485 / CAN / RS232 / CT(optional)
Monitoring	WiFi (built-in)
General Data	
Ingress Protection	IP54
Warranty	2 years
Operating Temperature	-10 °C ~ 50 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	10.7
Dimensions (W*H*D)	514*338*136.5mm
Max. Operating Altitude	4000m (Derating above 1000m)

Product specifications are subject to change without further notice.



IPS12000

Single Phase Off-grid Inverter

It is applicable to 220/230/240V voltage systems

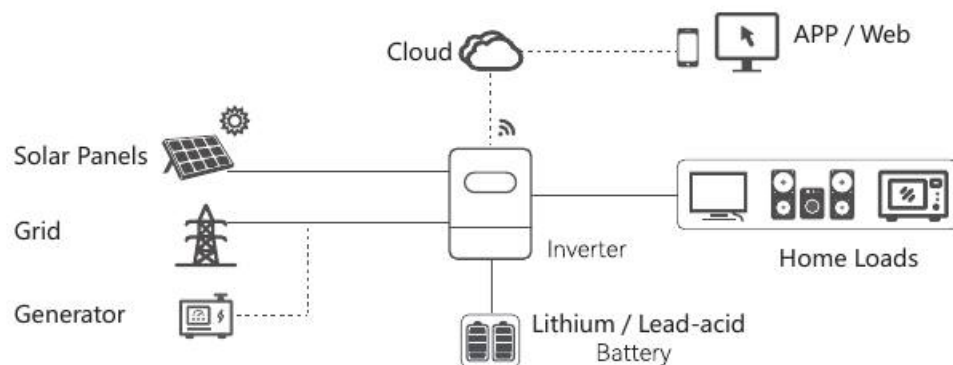


- Built-in 160A Solar Charger.
- Wide PV Input Voltage Range 60-500V.
- Dual MPPTs Input.
- 45A MAX PV Input.
- Dual AC Output.
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- 5 Inch Display.
- Feed-in to Grid.
- WiFi Monitoring(built-in).

SKD available



System Diagram



Technical Data

MODEL	IPS12000-48	
AC Input		
Rated Input Voltage (VAC)	220 / 230 / 240; L + N + PE	
Voltage Range (VAC)	90~280±3 (normal model); 170~280±3 (UPS model)	
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 Model)	1min:102%~125%Load 10s: 125%Load	
Max. Efficiency (Battery Model)	94%±48VDC	
Parallel Quantity	NA	Yes
Charger (PV / AC)		
Solar Charger Type	Dual MPPTs	
Max. PV input Current / Input Power	Using One MPPT: 27A/9KW Using Two MPPTs: 27A/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)	48	
Overcharge Protection (VDC)	60	
Battery Type	Lithium and Lead-acid	
Interface		
HMI	LCD/RGB	
Interface	RS485 / CAN / RS232	
Monitoring	WiFi (built-in)	
General Data		
Ingress Protection	IP54	
Warranty	2 years	
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)	

Product specifications are subject to change without further notice.

APS Series

Single Phase Off-grid Inverter

It is applicable to 208/220/230/240V voltage systems

1200W-12000W Freedom Of Choice



APP CONTROL

You can monitor
your power production
in real-time via the app



DUAL Dual AC Output (≥2000W)



IP43

-40°C

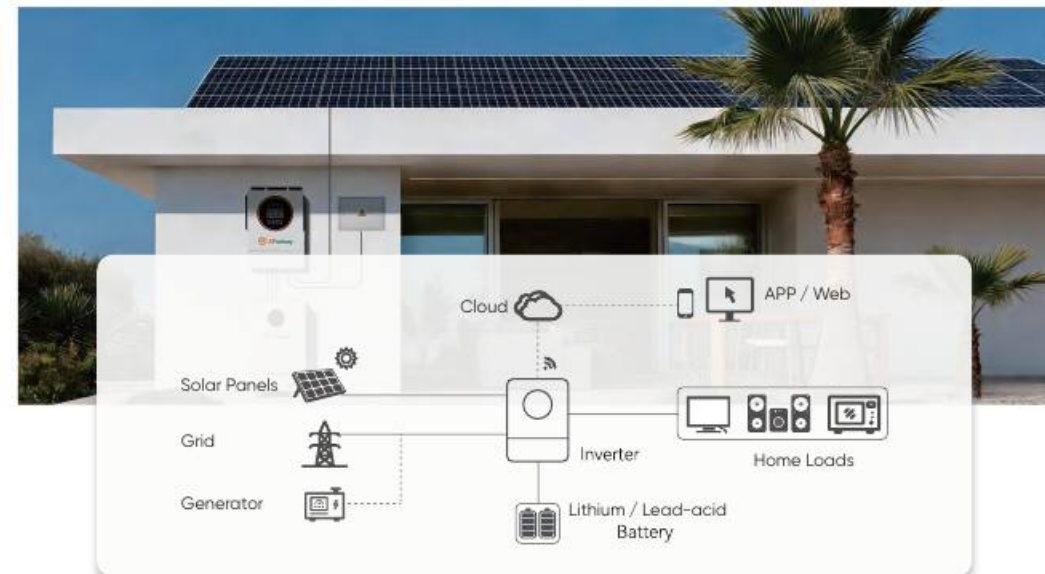
+60°C

Maintains near-full performance even at
-40°C to 60°C

2 Years Warranty



System Diagram





APS1200-2000

Single Phase Off-grid Inverter

It is applicable to 208/220/230/240V voltage systems

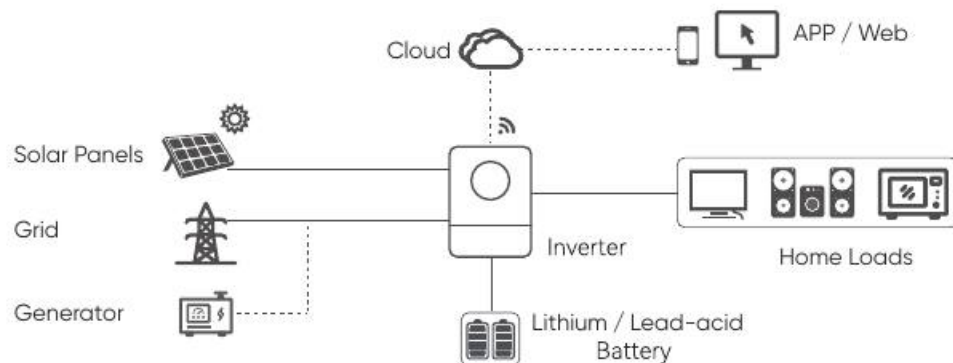


- Built-in 100A Solar Charger.
- Wide PV Input Voltage Range 17~400V.
- Dual AC Output(≥2000W).
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- Detachable Dust Cover.
- WiFi Monitoring(optional).
- Feed-in to Grid(≥2000W)

SKD
available



System Diagram



Technical Data

MODEL	APS1200-12		APS2000-12	
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)		90~280 (APP/GEN mode); 170~264 (UPS mode)	
Frequency (Hz)	50 / 60 (Auto Adaptive)			
AC Output				
Rated Capacity (kW)	1.2		2.0	
Surge Power (kVA)	2.4		4.0	
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;		long term@102%-125% load; 10s@125%-250% load	
Max. Efficiency (Battery Mode)	90%@12VDC		91%@12VDC	
Parallel Quantity	NA			
Charger (PV / AC)				
Solar Charger Type	MPPT			
Max PV input current / power	18A / 800W		18A / 3000W	
MPPT Range@Operating Voltage (VDC)	17-115		30-400	
Max PV Open Circuit Voltage (VDC)	115		450	
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		12	
Floating Charge Voltage (VDC)	13.8		Max. Charging Current (A)	100
Overcharge Protection (VDC)	15		Max. Discharging Current (A)	150
Battery Type	Lithium and Lead-acid			
Interface				
HMI	LCD/RGB			
Interface	RS485 / CAN / RS232		RS485 / CAN / RS232 / CT(optional)	
Monitoring	WiFi (Optional)		WiFi (optional/built-in/external)	
General Data				
Ingress Protection	IP43			
Warranty	2 years			
Operating Temperature	-10 °C - 60 °C			
Relative Humidity	5% - 95% (Non-condensing)			
Storage Temperature	-15 °C - 60 °C			
Net Weight (kg)	3.5		4.5	
Dimensions (W*H*D)	347*236*91mm		331*270*100mm	
Max. Operating Altitude	4000m (Derating above 1000m)			

Product specifications are subject to change without further notice.



SKD
available

APS3600-5000

Single Phase Off-grid Inverter

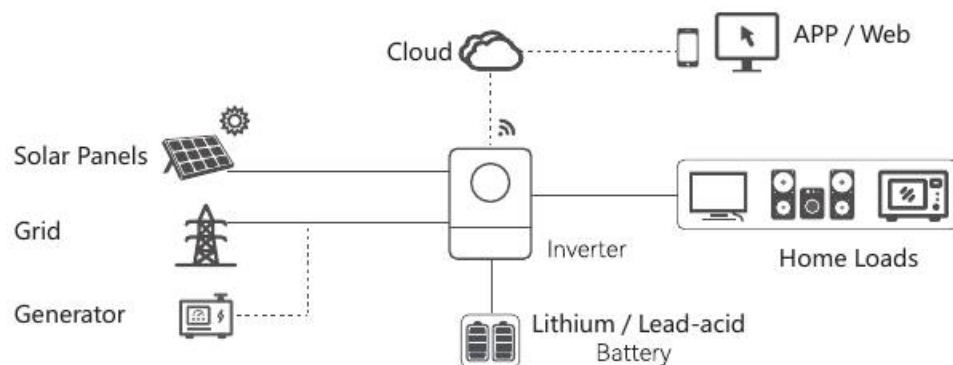
It is applicable to 208/220/230/240V voltage systems



- Built-in 160A Solar Charger.
- Wide PV Input Voltage Range 40~450V.
- 27A MAX PV Input.
- Dual AC Output.
- 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	APS3600-24	APS5000-24
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)	3.6	5
Surge Power (kVA)	7.2	10
Voltage (VAC)	208 / 220 / 230 / 240	
Power Factor (PF)	1	
Frequency	50/60Hz±0.1%	
Switch Time (ms)	10 (APP/UPS mode) / 20 (GEN mode)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave	
Overload Capacity (Battery Mode)	60s@102%-110% load; 10s@110%-130% load; 3s@130%-150% load; 0.2s@150% load	1min@102%-120%load; 10s>120% load
Max. Efficiency (Battery Mode)	92.7%@24VDC	93.5%@24VDC
Parallel Operation Support	NA	
Charger (PV / AC)		
Solar Charger Type	MPPT	
Max PV input current / power	18A / 5000W	27A / 9000W
MPPT Range@Operating Voltage (VDC)	40~450	60~450
Max PV Open Circuit Voltage (VDC)	500	500
Max PV Charge Current (A)	100	160
Max AC Charge Current (A)	100	160
Max. Charge Current (PV + AC) (A)	100	160
Battery		
Rated Voltage (VDC)	24	24
Floating Charge Voltage (VDC)	27	27
Overcharge Protection (VDC)	30.5	30.5
Battery Type	Lithium and Lead-acid	
Interface		
HMI	LCD/RGB	
Interface	RS485 / CAN / RS232	RS485 / CAN / RS232
Monitoring	WiFi (Optional)	WiFi (optional)
General Data		
Ingress Protection	IP43	
Warranty	2 years	
Operating Temperature	-10 °C - 60 °C	
Relative Humidity	5% ~ 95% (Non-condensing)	
Storage Temperature	-15 °C - 60 °C	
Net Weight (kg)	6.2	8.4
Dimensions (W*H*D)	420*284*94mm	410*336*110mm
Max. Operating Altitude	4000m (Derating above 1000m)	

Product specifications are subject to change without further notice.



APS6500-6500Pro

Single Phase Off-grid Inverter

It is applicable to 208/220/230/240V voltage systems

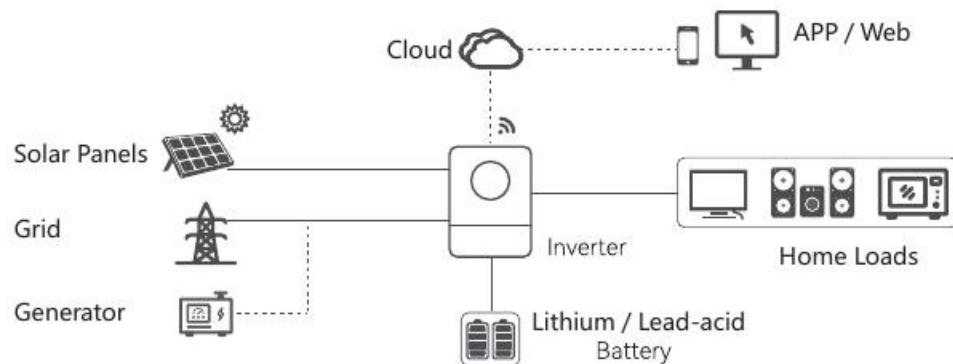


- Built-in 120A Solar Charger.
- Wide PV Input Voltage Range 60~450V.
- 28A MAX PV Input.
- Dual AC Output.
- Support Meter/CT Connection.
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- Support Generator ATS Control.
- Feed-in to Grid.
- WiFi Monitoring(optional/built-in).

SKD
available



System Diagram



Technical Data

MODEL	APS6500-48		APS6500 Pro-48	
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)	6.5			
Surge Power (kVA)	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)	10min@102%-120% Load, 1min@120%-150% Load 10S@150%-200% Load, 5s@ 200% Load			
Max. Efficiency (Battery Mode)	93%@48VDC			
Parallel Operation Support	NA		Yes	
Charger (PV / AC)				
Solar Charger Type	MPPT			
Max PV input current / power	28A / 9000W			
MPPT Range@Operating Voltage (VDC)	60~450			
Max PV Open Circuit Voltage (VDC)	520			
Max PV Charge Current (A)	120			
Max AC Charge Current (A)	120			
Max. Charge Current (PV + AC) (A)	120			
Battery				
Rated Voltage (VDC)	48			
Floating Charge Voltage (VDC)	54			
Overcharge Protection (VDC)	61			
Battery Type	Lithium and Lead-acid			
Interface				
HMI	LCD/RGB			
Interface	RS485 / CAN / RS232 / CT(optional)			
Monitoring	WiFi (built-in)			
General Data				
Ingress Protection	IP43			
Warranty	2 years			
Operating Temperature	-10 °C - 50 °C			
Relative Humidity	5% ~ 95% (Non-condensing)			
Storage Temperature	-15 °C - 60 °C			
Net Weight (kg)	10.7			
Dimensions (W*H*D)	514*338*136.5mm			
Max. Operating Altitude	4000m (Derating above 1000m)			

Product specifications are subject to change without further notice.



APS12000-12000Pro

Single Phase Off-grid Inverter

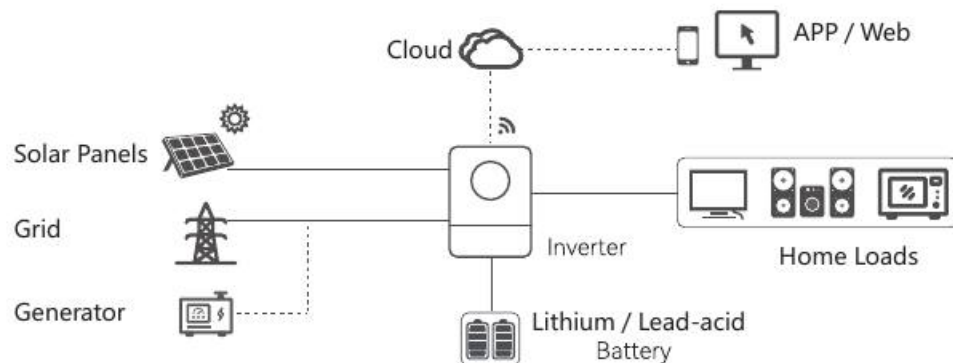
It is applicable to 220/230/240V voltage systems



- 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	APS12000-48		APS12000 Pro-48
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	Yes	
Charger (PV / AC)			
Solar Charger Type	Dual MPPTs		
Max. PV input Current / Input Power	Using One MPPT: 27A/9KW Using Two MPPTs: 27A/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)	48		
Overcharge Protection (VDC)	60		
Battery Type	Lithium and Lead-acid		
Interface			
HMI	LCD/RGB		
Interface	RS485 / CAN / RS232 / CT(optional)		
Monitoring	WiFi (built-in)		
General Data			
Ingress Protection	IP43		
Warranty	2 years		
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)		

Product specifications are subject to change without further notice.