

PIONEERING SMART SOLAR POWER SOLUTIONS



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SOLAR POWER SOLUTIONS | 2026



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



Perfect for home small business & commercial use

Single Phase Off-grid Inverter



APS Series

12/24/48V
12/2.0/3.6/5/6.5/12kW

Micro - Inverters



VN Series

18V
300W-2000W

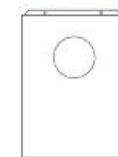
Micro DC ESS Balcony Micro Energy Storage



DC battery

2400W
10kWh

Solar Battery Hybrid Controller



AHS Series

12/24/48V
6.3/10.2/12kW

Single-phase Hybrid Microinverter for Storage



EZOG Series

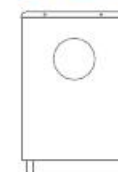
12-48V
1200VA

Hybrid System AC Chargers



Wall-mounted AC Chargers

Split Phase Hybrid Inverter



AHS-SP Series

12/24/48V
3.6/6.3/8.5/12kW

Single-phase Hybrid Microinverter for Storage



EZOG-LV Series

12-48V
1000VA

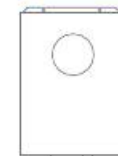
Single phase Smart Meter Device



CT Series

50A
11.5kW

Solar Battery Hybrid Controller



AHS-LV Series

12/24/48V
9kW

Three-Phase Hybrid Inverter



GN Series

100-710V
6/8/10/12/15kW

Single phase/three-phase water lifting inverter



SPRING Series

Split Phase Hybrid Inverter



SPH-SP Series

24/48V
3.6//6.2/8.5/10/12kW

Single Phase Hybrid Inverter



HN Series

48V
3/3.6/4/5/6kW

Single Phase Hybrid Inverter



SPH-LV Series

24/48V
3/3.6/5kW

Hybrid Battery



Hybrid Battery

2500W
51.2V

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

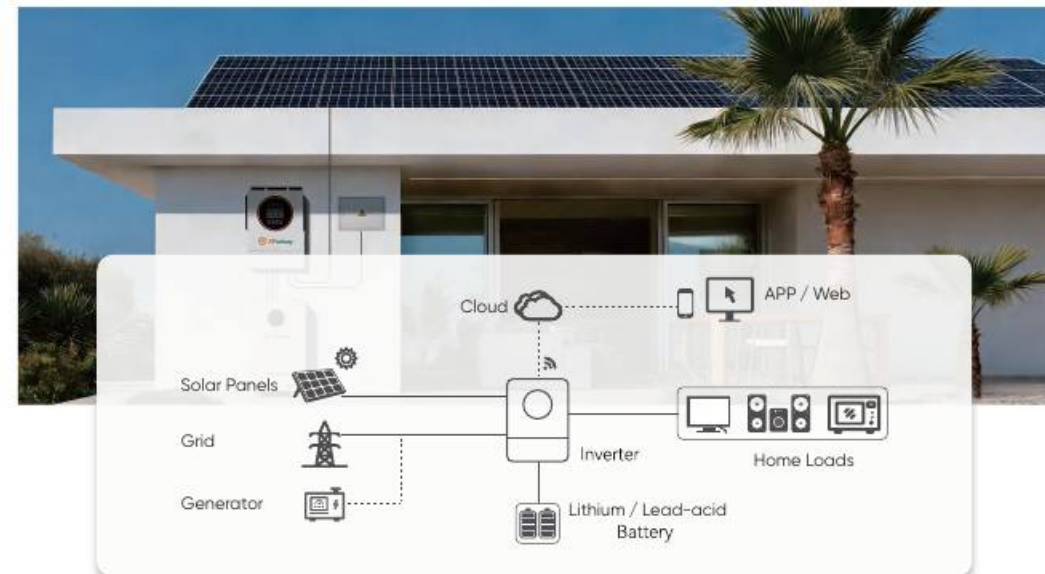
+60°C

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

2 Years Warranty



System Diagram





APS1200-2000

Single Phase Off-grid Inverter

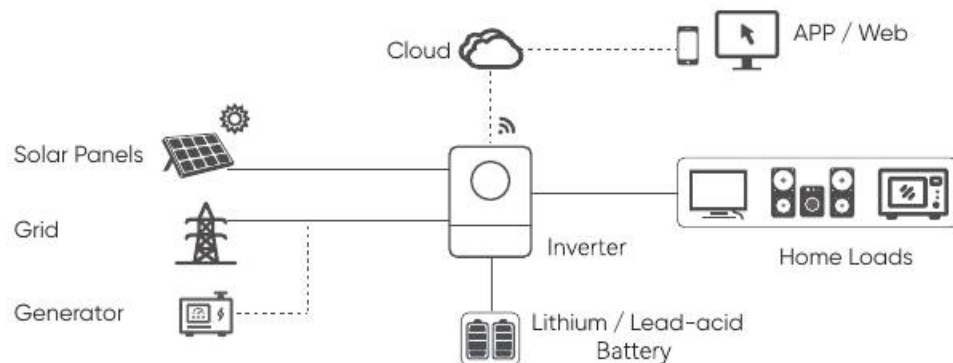
It is applicable to 208/220/230/240V voltage systems



- 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 (optional/built-in/external)4G(optional)
- Feed-in to Grid(≥2000W)



System Diagram



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/built-in/external) 4G(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)	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.



APS3600-5000

Single Phase Off-grid Inverter

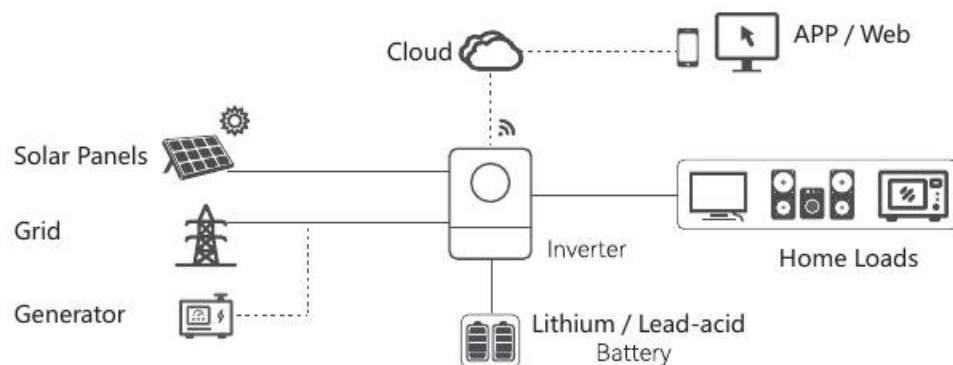
It is applicable to 208/220/230/240V voltage systems



- 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 (optional/built-in/external) 4G(optional)



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/built-in/external) 4G(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

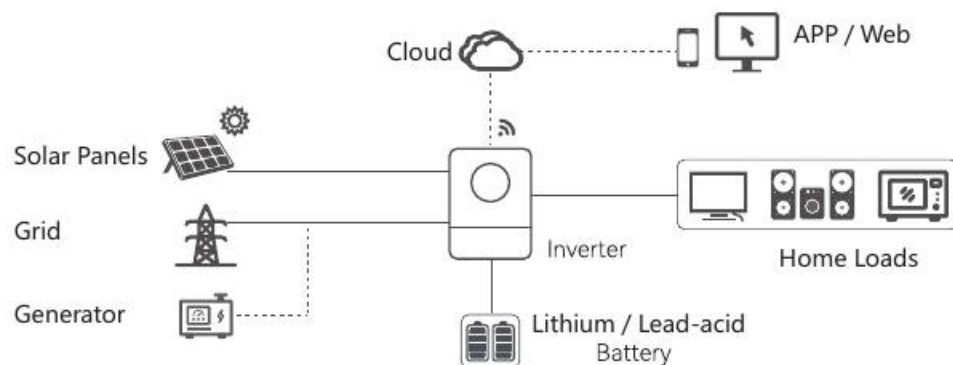
It is applicable to 208/220/230/240V voltage systems



- 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 (optional/built-in/external) 4G(optional).



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 model); 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 model) / 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 (optional/built-in/external) 4G(optional)	
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

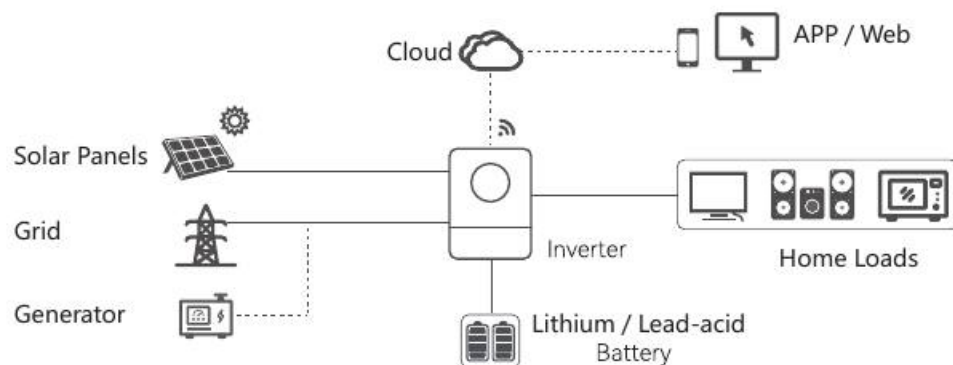
It is applicable to 220/230/240V voltage systems



- 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 (optional/built-in/external) 4G(optional).



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 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 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 (optional/built-in/external) 4G(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)	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.



AHS6300-12000

Solar Battery Hybrid Controller

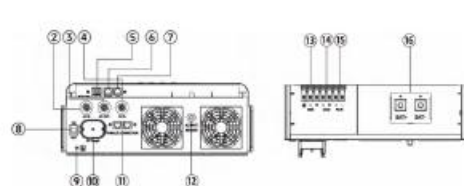
It is applicable to 220/230/240V voltage systems



- Low battery voltage input.
- Reliable protection against short-circuit, overvoltage, undervoltage, overload, etc.
- IP54 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.

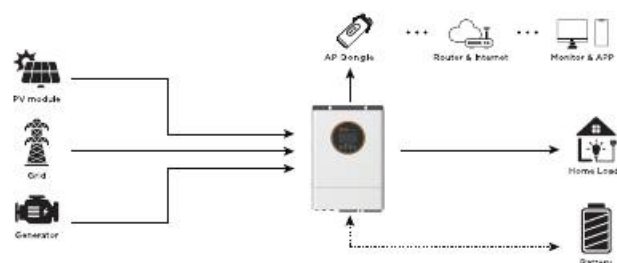


Bottom view



1. LCD display
2. AC input
3. AC output
4. PV input
5. Dry contact
6. RS485
7. CAN
8. Power on/off switch
9. Ground
10. AP Dongle
11. Parallel communication ports
12. AC Input Breaker
13. Grid L/N/PE
14. Load L/N
15. PV input +/-
16. BAT+/BAT-

System Diagram



Technical Data

MODEL	AHS-6.3			AHS-10.2		AHS-12	
Dimensions W/H/D	380mm × 576mm × 143mm			480mm × 470mm × 120mm		480mm × 470mm × 120mm	
Weight	12.8kg			14.5kg		14.5kg	
Ingress Protection	IP54						
Warranty	5 years						
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						
Max. Number of Parallel Units	6						
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	210A		250A	
Max. Charge Current (from PV)	85A	105A	135A	210A		250A	
Max. Charge Current (from Grid)	85A	105A	135A	210A		250A	
Max. Charge Current	85A	105A	135A	210A		250A	
Ac Output Data							
Max. Output Apparent Power	1000VA	2500VA	6300VA	10200VA		12000VA	
Peak Output Apparent Power	2000VA	5000VA	12600VA	20400VA		24000VA	
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.			(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	40A			60A		80A	
Pv Input Data							
Max. PV Input Power	6500W			10000W		15000W	
Number of MPPTs	1			2		2	
Max. Input Voltage	500VDC			500VDC		500VDC	
MPPT Voltage Range	60 to 450VDC			60 to 450VDC		60 to 450VDC	
Max. PV Input Current	22A			22A+22A		27A+27A	
MPPT Efficiency	99.9%			99.9%		99.9%	

Product specifications are subject to change without further notice.

5 YEARS
WARRANTY

IP54



AHS3600-12000-SP

Split Phase Hybrid Inverter

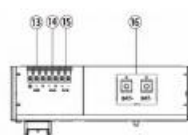
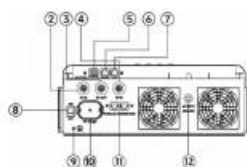
It is applicable to 110/115/120/220/230/240V voltage systems



- Low battery voltage input.
- Reliable protection against short-circuit, overvoltage, undervoltage, overload, etc.
- IP54 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.

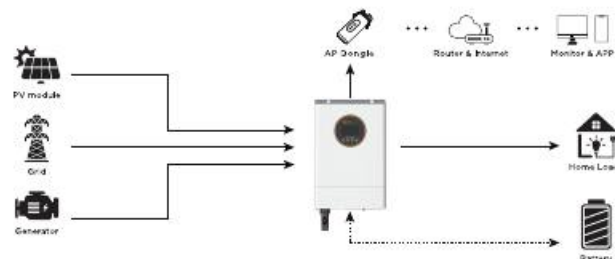


Bottom view



1. LCD display
2. AC input
3. AC output
4. PV input
5. Dry contact
6. RS485
7. CAN
8. Power on/off switch
9. Ground
10. AP Dongle
11. Parallel communication ports
12. AC Input Breaker
13. Grid L/N/PE
14. Load L/N
15. PV input +/-
16. BAT+/BAT-

System Diagram



MODEL	AHS-3.6-SP			AHS-6.3-SP			AHS-12-SP
Dimensions W/H/D	420mm × 284mm × 94mm			380mm × 576mm × 141mm			480mm × 410mm × 120mm
Weight	6.2kg			12.8kg			14.5kg
Ingress Protection	IP54						
Warranty	5 years						
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						
Max. Number of Parallel Units	6						
Battery Data							
Battery Voltage Type	12V	24V	48V	12V	24V	48V	48V
Float Charging Voltage	13.5V	27V	54V	13.5V	27V	54V	54V
Overcharging Protection Voltage	15V	30V	60V	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	80A			135A	135A	135A	250A
Max. Charge Current (from PV)	80A			85A	105A	135A	250A
Max. Charge Current (from Grid)	80A			85A	105A	135A	250A
Max. Charge Current	80A			85A	105A	135A	250A
Ac Output Data							
Max. Output Apparent Power	600VA	1400VA	3600VA	1000VA	2500VA	6300VA	12000VA
Peak Output Apparent Power	1200VA	2800VA	7200VA	2000VA	5000VA	12600VA	24000VA
Output Waveform	Pure sine wave						
Nominal Output Voltage	110VAC/220VAC, 115VAC/230VAC, 120VAC/240VAC			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 ± 10%) ± 10% Reports an error and turns off the output 5 minutes later. (105% ± load ± 10%) ± 10% Reports an error and turns off the output 10 seconds later. (Load ± 10%) ± 10% Reports an error and turns off the output 5 seconds later.			(102% ± load ± 10%) ± 10% Reports an error and turns off the output 5 minutes later. (105% ± load ± 10%) ± 10% Reports an error and turns off the output 10 seconds later. (Load ± 10%) ± 10% Reports an error and turns off the output 5 seconds later.			(102% ± load ± 10%) ± 10% Reports an error and turns off the output 5 minutes later. (105% ± load ± 10%) ± 10% Reports an error and turns off the output 10 seconds later. (Load ± 10%) ± 10% Reports an error and turns off the output 5 seconds later.
Ac Input Data							
Nominal Voltage	110VAC/220VAC, 115VAC/230VAC, 120VAC/240VAC			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	Split phase						
Max. Bypass Overload Current	40A			40A			80A
Pv Input Data							
Max. PV Input Power	6500W			6500W			15000W
Number of MPPTs	1			1			2
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
MPPT Efficiency	99.9%			99.9%			99.9%

Product specifications are subject to change without further notice.

5 YEARS
WARRANTY

IP54



AHS5000-LV

Solar Battery Hybrid Controller

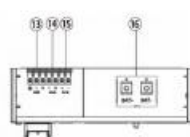
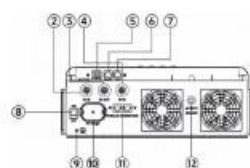
It is applicable to 110/115/120V voltage systems



- Low battery voltage input.
- Reliable protection against short-circuit, overvoltage, undervoltage, overload, etc.
- IP54 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.

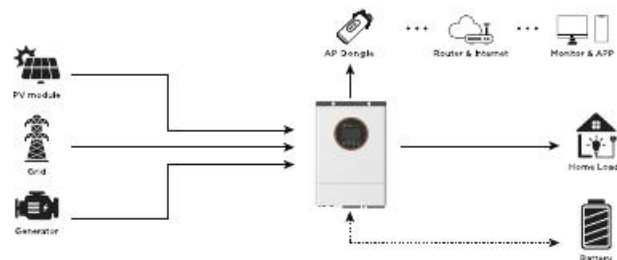


Bottom view



1. LCD display
2. AC input
3. AC output
4. PV input
5. Dry contact
6. RS485
7. CAN
8. Power on/off switch
9. Ground
10. AP Dongle
11. Parallel communication ports
12. AC Input Breaker
13. Grid L/N/PE
14. Load L/N
15. PV input +/-
16. BAT+/BAT-

System Diagram



Technical Data

MODEL	AHS-S-LV		
Dimensions W/H/D	362mm × 526mm × 141mm		
Weight	11.8kg		
Ingress Protection	IP54		
Warranty	5 years		
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		
Max. Number of Parallel Units	6		
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	110A		
Max. Charge Current (from PV)	85A	100A	110A
Max. Charge Current (from Grid)	85A	100A	110A
Max. Charge Current	85A	100A	110A
AC Output Data			
Max. Output Apparent Power	1000VA	2300VA	5000VA
Peak Output Apparent Power	2000VA	4600VA	10000VA
Output Waveform	Pure sine wave		
Nominal Output Voltage	110VAC/115VAC/120VAC		
Nominal Output Frequency	50Hz/60Hz		
Peak Efficiency (PV to Inverter)	96%		
Peak Efficiency (Battery to Inverter)	94.5%		
Switching Time	5ms		
Overload Protection	(102% < load < 110%) ± 10%: close the output after reporting an error for 5 minutes; (110% < load < 120%) ± 10%: close the output after reporting an error for 10 seconds; (Load > 120%) ± 10%: close the output after reporting an error for 5 seconds.		
AC Input Data			
Nominal Voltage	110VAC/115VAC/120VAC		
Operating Voltage Range	90 to 140VAC		
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	50A		
PV Input Data			
Max. PV Input Power	6000W		
Number of MPPTs	1		
Max. Input Voltage	350VDC		
MPPT Voltage Range	60 to 300VDC		
Max. PV Input Current	22A		
MPPT Efficiency	99.9%		

Product specifications are subject to change without further notice.



SPH3600-6200-SP

Split Phase Hybrid Inverter

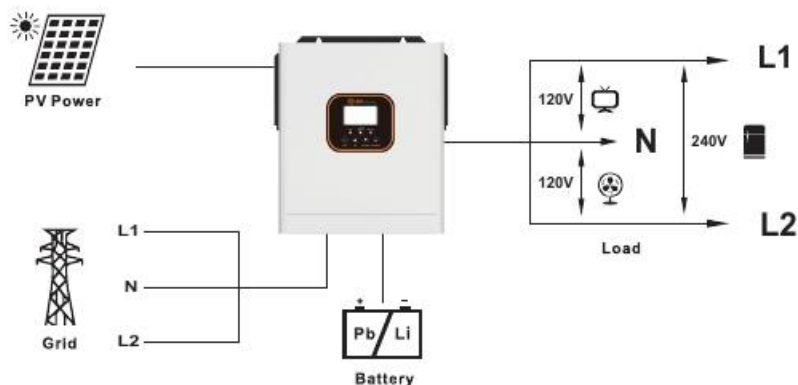
It is applicable to 120Vac single phase and 240Vac split phase voltage systems



- Built in dustproof components.
- 120Vac single phase and 240Vac split phase
- Capable to operate without Battery.
- Wider PV input voltage range:90V~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).



System Diagram



Technical Data

MODEL	SPH3.6K-24/48-SP		SPH6.2K-48-SP
PV Array			
Max.PV Array Power	4200W		7200W
MaxPV Array Open-Circuit Voltage	500VDC		
Start-up Voltage	90VDC		
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	24/48V	48V	
Battery Voltage Range	21~29/41~58V	41~58V	
Max. AC Charging Current	80/40A	65A	
Max. PV Charging Current	100A/60A	100A	
Max. Continuous Discharging Current	120/80A	135A	
AC Input			
Nominal Voltage	240Vac split phase		
Voltage Range	180~280Vac		
Frequency	50/60Hz (Auto following)		
Max. input Current	40A		
AC Output			
Nominal Voltage	115Vac±5%/230Vac±5%		
Output Voltage Waveform	Pure Sine Wave		
Rated Output Power	3600VA/3600W	6200VA/6200W	
Peak Output Power	5300VA	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	-30~+50℃		
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	IP43		
Warranty	2 years		
Weight(kg)	7/6.3	10	
Dimension(W*H*Dmm)	428*367*176	509*384*176	
Mounting Method	Wall Mounted		

Product specifications are subject to change without further notice.



SPH8500-12000-SP

Split Phase Hybrid Inverter

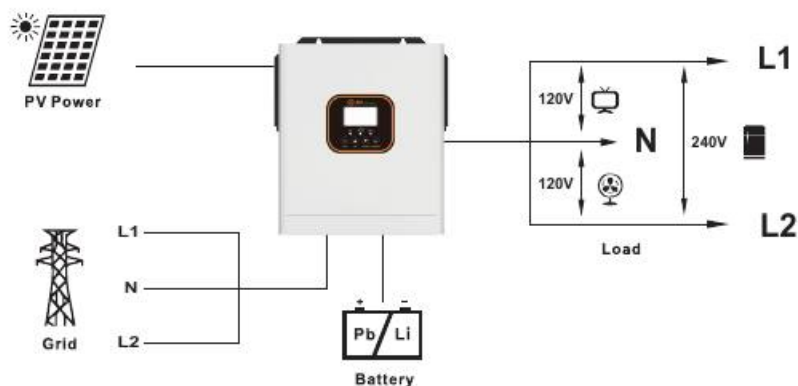
It is applicable to 120Vac single phase and 240Vac split phase voltage systems



- 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).



System Diagram



Technical Data

MODEL	SPH8.5K-48-SP	SPH10.2K-48-SP	SPH12K-48-SP
PV Array			
Max.PV Array Power	6600W+6600W		9000W+9000W
MaxPV Array Open-Circuit Voltage	500VDC		
Start-up Voltage	100VDC		
MPPT Operating Voltage Range	85-450VDC		
Nominal Input Voltage	360VDC		
Max. input Current MPPT	18A*2		25A*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	80A	100A	
Max. PV Charging Current	140A	160A	
Max. Continuous Discharging Current	180A	210A	250A
AC Input			
Nominal Voltage	240Vac split phase		
Voltage Range	180-280VAC		
Frequency	50/60Hz (Auto following)		
Max. input Current	40A	50A	60A
AC Two Load Output			
Nominal Voltage	115Vac (L1/N, L2/N)/230Vac(L1/L2)±5%		
Output Voltage Waveform	Pure Sine Wave		
Rated Output Power	8500VA/8500W	10200VA/10200W	12000VA/12000W
Peak Output Power	11000VA	14000VA	15000VA
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	IP43		
Warranty	2 years		
Weight(kg)	12.5	14.5	14.5
Dimension(W*H*Dmm)	605*430*201		
Mounting Method	Wall Mounted		

Product specifications are subject to change without further notice.



SPH3000-5000-LV

Single Phase Hybrid Inverter

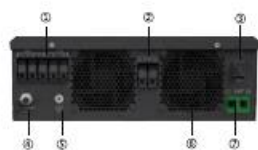
It is applicable to 120V±5% voltage systems



- 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).

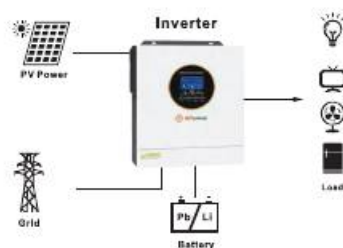


Bottom view

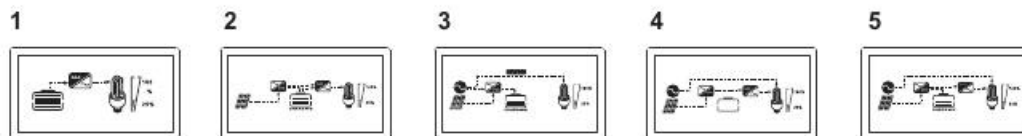


- 1.GAID&LOAD
- 2.PV Port
- 3.ON/OFF Rocker Switch
- 4.Overload Protector
- 5.Grounding ScrewHole
- 6.Cooling Fan
- 7.Battery Port

System Diagram



Working Mode



Technical Data

MODEL	SPH3K-24/48-LV		SPH3.6K-24/48-LV		SPH5K-48-LV	
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@100%~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	IP43					
Warranty	2 years					
Weight(kg)	6.5			8.4		
Dimension(W*H*Dmm)	326*275*95			363*105*300		
Mounting Method	Wall Mounted					

Product specifications are subject to change without further notice.

VN Series Micro - Inverters

VN1T/VN2T/VN4T

Micro-inverters
300W-2000W Freedom Of Choice



IP67

Waterproof and Dustproof

MPPT

MPPT Tracker

15Years

15 Years Lifetime Design

APP

APP Monitoring

5m

AC cable

10Years

10 Years Warranty

**800W
Micro-inverter**

Product Innovations



about **5%** Save on electricity bills

about **2%** Save on electricity bills

about **3%** Save on electricity bills

No derating under high temperature



Online in 30 seconds



Low-voltage startup





App control

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



Double MPPT

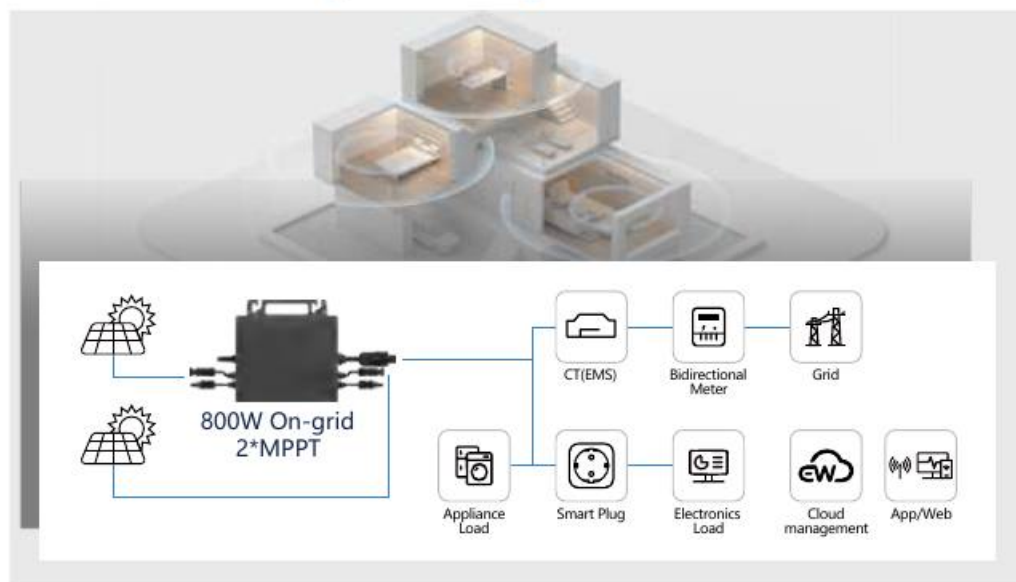
Optimizes solar power generation under varying conditions



10 Years Warranty



Micro-inverters system Diagram



Microinverter Demo



Model	VN1T (300W/400W/500W)	VN2T (600W/800W/1000W)	VN4T (1200W/1600W/2000W)
-------	--------------------------	---------------------------	-----------------------------

Inputs (DC)

Recommended Module Power [W]	(300~550)	(300~550)*2	(300~550)*4
Start up Voltage per Input [V]	18	18	18
Mppt Voltage Range per Input [V]	17.5~55	17.5~55	17.5~55
Max. Input Voltage per Input [V]	60	60	60
Max. Input Current per Input [A]	13.3	13.3	13.3
Max. Input Short-circuit Current per Input[A]	20	20	20

Outputs (AC)

Max. Continous Output Power [VA]	300/400/500	600/800/1000	1200/1600/2000
Nominal Continous Output Power [W]	300/400/500	600/800/1000	1200/1600/2000
Max. Output Current [A]	1.30/1.74/2.17 (230)	2.61/3.48/4.35 (230)	5.22/6.96/8.70 (230)
Nominal Output Voltage [V]	220/230/240, L/N/PE	220/230/240, L/N/PE	220/230/240, L/N/PE
Nominal Frequency [Hz]	50/60	50/60	50/60
Power Factor	>0.99 default, 0.9 leading ... 0.9 lagging		
Maximum units per 10AWG branch²	24/18/14	12/9/7	6/4/3

Efficiency

Peak Inverter Efficiency	95.60%	95.60%	95.60%
Nominal Mppt Efficiency	99.90%	99.90%	99.90%
Night Time Power Consumption [mW]	<50	<50	<50

Mechanical Information

Dimensions (W×H×D mm)	227 x 183 x 42	233 x 232 x 42	380 x 232 x 42
Protection Grade	IP67	IP67	IP67

Compliance

Grid Connection Standards	VDE 4105; VDE 0124; EN50549
Regulatory	IEC/EN 62109-1/2
EMC	EN 61000-6-1/-3
Cybersecurity	EN 18031-1:2024; EN 18031-2:2024



EZOG Series

Technical Data Single Phase Off-grid Inverter

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

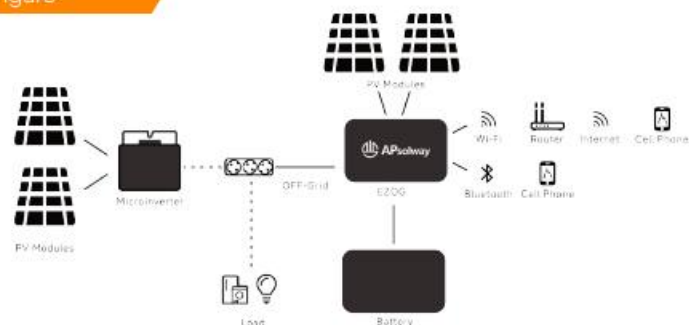


- GaN inside, supports 40A continuous fast charge.
- Fanless design for ultra-quiet operation.
- Support for expanding the capacity of multiple battery packs.
- Support for AC coupling in balcony microinverter system.
- More flexible installation of split batteries.
- 24-hour intelligent energy management system.
- Intelligent operation and maintenance platform with EMA.
- Quick and easy installation of an app.
- System-level IP67.
- 51.2V low battery voltage input.

Interface Introduction



Application Figure



MODEL	EZOG
PV Input	
Recommended PV Module Power (STC) Range[1]	430Wp~900Wp+
Operating voltage range	12V~60V
Maximum input voltage	60V
MPPT voltage range	12V~48V
Start-up voltage	18V
Maximum continuous input current	17A*2
Isc PV	25A*2
AC Input and Output (off-grid Port)	
Grid type	Single-phase
Nominal AC voltage (2)	220V/230V/240V
Nominal AC frequency (2)	50Hz/60Hz
Maximum continuous output power	1200VA
Peak output apparent power	1800VA, 10s
Maximum continuous output current	5.45A
Maximum continuous input power	1200VA
Maximum continuous input current	5.45A
Battery Ratings (Battery Port)	
Battery voltage range	40~60VDC
Nominal battery voltage	51.2V
Communication Ports	CAN
Maximum Continuous Discharge Power	1200VA
Peak Discharge Power	1800VA, 10s
Maximum discharge current	27A
Maximum charge current	40A
General Specifications	
Dimensions W/H/D	351mm*269mm*47mm
Weight	8KG
Maximum Efficiency	95.5%
Operating Ambient Temperature Range	-40~55
Storage Temperature Range	-40~85
Ingress Protection	IP67
Warranty	5 years
Relative Humidity	10%~90%
Cooling	Natural Convection-No Fans
Maximum Altitude	<2000m
Pollution Degree Classification	PD3
Protective class	I
Frequency Range	2412MHz~2472MHz (Wi-Fi), 2402MHz~2480MHz (Bluetooth)
RF Output Power (EIRP)	18.8 dBm (Wi-Fi), 0.67dBm (Bluetooth)
Features	
Communication	Built-in Wi-Fi and Bluetooth
Energy Management	AP EasyPower APP
Compliances	
Safety, EMC Compliances	EN 62109-1/-2; EN 62477-1; EN IEC 61000-6-1/-2/-3/-4; EN 62920

Product specifications are subject to change without further notice.



EZOG-LV Series

Technical Data Single Phase Off-grid Inverter

It is applicable to 110/120/127V voltage systems

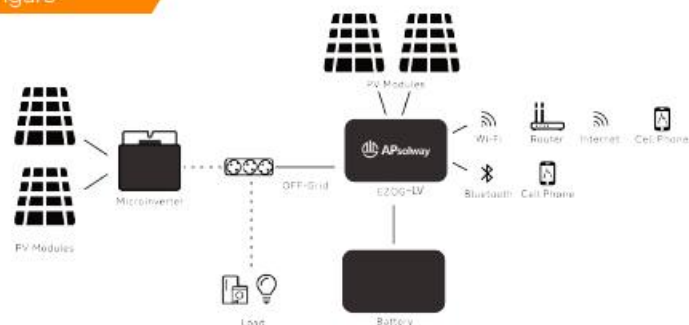


- GaN inside, supports 40A continuous fast charge.
- Fanless design for ultra-quiet operation.
- Support for expanding the capacity of multiple battery packs.
- Support for AC coupling in balcony microinverter system.
- More flexible installation of split batteries.
- 24-hour intelligent energy management system.
- Intelligent operation and maintenance platform with EMA.
- Quick and easy installation of an app.
- System-level IP67.
- 51.2V low battery voltage input.

Interface Introduction



Application Figure



MODEL	EZOG-LV
PV Input	
Recommended PV Module Power (STC) Range[1]	430Wp~900Wp+
Operating voltage range	12V~60V
Maximum input voltage	60V
MPPT voltage range	12V~48V
Start-up voltage	18V
Maximum continuous input current	17A*2
Isc PV	25A*2
AC Input and Output (off-grid Port)	
Grid type	Single-phase
Nominal AC voltage [2]	110V/120V/127V
Nominal AC frequency [2]	60Hz
Maximum continuous output power	1000VA
Peak output apparent power	1500VA, 10s
Maximum continuous output current	9.09A
Maximum continuous input power	1000VA
Maximum continuous input current	9.09A
Battery Ratings (Battery Port)	
Battery voltage range	40~60VDC
Nominal battery voltage	51.2V
Communication Ports	CAN
Maximum Continuous Discharge Power	1000VA
Peak Discharge Power	1500VA, 10s
Maximum discharge current	27A
Maximum charge current	40A
General Specifications	
Dimensions W/H/D	351mm*269mm*47mm
Weight	8KG
Maximum Efficiency	96.2%
Operating Ambient Temperature Range	-40~55
Storage Temperature Range	-40~85
Ingress Protection	IP67
Warranty	5 years
Relative Humidity	10%~90%
Cooling	Natural Convection-No Fans
Maximum Altitude	<2000m
Pollution Degree Classification	PD3
Protective class	I
Features	
Communication	Built-in Wi-Fi and Bluetooth
Energy Management	AP EasyPower APP
Compliances	
Safety, EMC Compliances	IEC 62109-1/-2; IEC 62477-1; IEC 61000-6-1/-2/-3/-4; IEC 62920

Product specifications are subject to change without further notice.



GN6000-15000

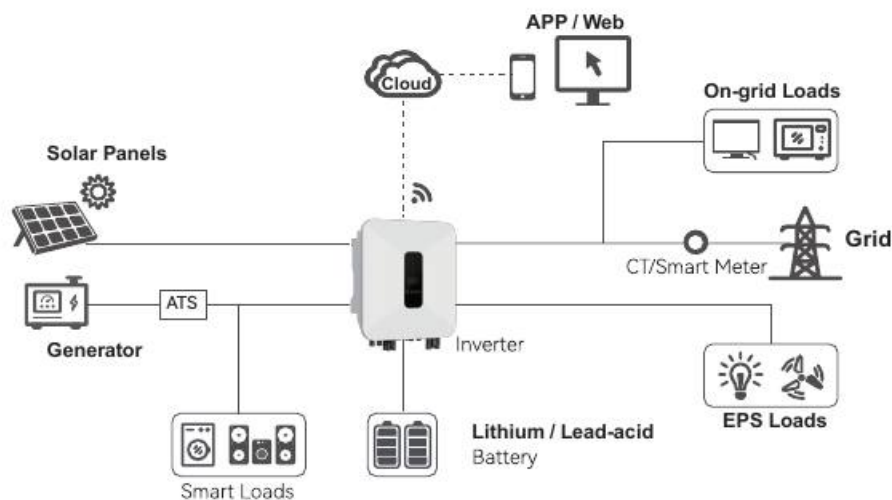
Three Phase Hybrid Inverter

It is applicable to 220/380, 230/400, 240/415 voltage systems



- Wide MPPT range.
- 2 MPPT trackers.
- Max 2 PV strings per MPPT tracker
- Peak efficiency 98.4%
- IP66 protection level
- Integrated and concise design

System Diagram



Technical Data

MODEL	GN6KT-BH1	GN8KT-BH1	GN10KT-BH2	GN12KT-BH2	GN15KT-BH2
PV Input					
Max. PV Input Power(kW)	9	12	15	18	22.5
Max. PV Open Circuit Voltage(V)	1000				
MPPT Range: Operating Voltage(VDC)	120-950				
Full Power MPPT Voltage Range(VDC)	380-950				
Start-up Voltage(VDC)	120				
Nominal Input Voltage(V)	780				
Max. Input Current per MPPT(A)	15	15	15/15	30/15	30/30
Max. Short-circuit Current(A)	36	36	36/36	36/36	36/36
MPPT Tracker/Strings	1	1	2	2	2
PV Strings per MPPT Tracker	1	1	1/1	2/1	2/2
AC Output(On-Grid)					
Nominal Output Apparent Power to Grid(kVA)	6	8	10	12	15
Max. Apparent Power to Grid(kVA)	6.6	8.8	11	13.2	16.5
Max. Output Current to Grid(A)	10	13.4	16.7	20	25
Nominal Apparent Power from Grid(kVA)	6	8	10	12	15
Max. Apparent Power from Grid(kVA)	12	16	20	24	24
Max. Current from Grid(A)	18.3	24.4	30.4	36.5	36.5
Nominal Voltage/Frequency	220/380, 230/400, 240/415, 50/60Hz, L1/L2/L3+N+PE				
Adjustable Power Factor	0.8leading-0.8lagging				
THDI	<3%				
AC Output(BackUp)					
Nominal Output Power(kW)	6	8	10	12	15
Max. Apparent Power(kVA)	6.6	8.8	11	13.2	16.5
Max. Output Current(A)	10	13.4	16.7	20	25
Nominal Voltage/Frequency	220/380, 230/400, 240/415, 50/60Hz, L1/L2/L3+N+PE				
Automatic Switch Time(ms)	<10				
THDu	<2%				
Overload Capacity	110%, 30s / 120%, 10s / 150%, 0.02s				
Efficiency					
Max. Efficiency	98.30%	98.30%	98.30%	98.40%	98.40%
Europe Efficiency	9790%	9790%	9790%	98.00%	98.00%
Max. Battery Charge/Discharge Efficiency	9740%	9740%	9740%	9730%	9730%
Battery					
Battery Voltage Range(V)	100-710				
Max. Charging/Discharging Current(A)	50/50				
Max. Charging/Discharging Power(kW)	6/6	8/8	10/10	12/12	15/15
Battery Type	Lithium				
Protection					
DC Switch	Yes				
DC Reverse Polarity Protection(PV/Batt)	Yes				
DC/AC Surge Protection	Type II/Type II				
AC Overvoltage Protection	Yes				
AC Overcurrent Protection	Yes				
AC Short-circuit Protection	Yes				
Anti-islanding Protection	Yes				
Residual-current Monitoring	Yes				
Insulation Resistance Monitoring	Yes				
General Data					
HMI	LCD & APP				
BMS	RS485; CAN				
EMS/Meter	RS485				
Communication	WiFi/Ethernet				
Ingress Protection	IP66				
Operating Temperature Range	-25~60℃				
Relative Humidity	0-100%(Non-condensing)				
Max. Operating Altitude	4000m(Derating above 3000m)				
Cooling	Smart Fan				
Topology	Transformerless				
Dimensions(W*H*D, mm)	485*525*245mm(without terminal and bracket)				
Net Weight(kg)	30	30	32	33	33
Self-consumption(W)	<15				
Standard Compliance					
Safety Regulation	IEC/EN62109-1/-2				
EMC	IEC/EN61000-6-1/-2/-3/-4				
Grid Regulation	Europe: EN50549, Belgium: C10/TI, Germany: VDE-AR-N 4105, Italy: CEI 0-21, UNE217001/217002				

Product specifications are subject to change without further notice.



HN3000-6000

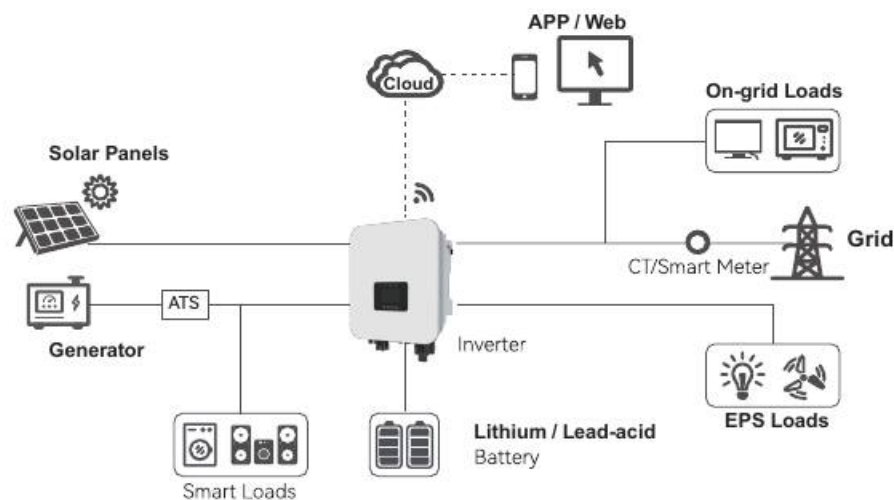
Single Phase Hybrid Inverter

It is applicable to 230V voltage systems



- Wide MPPT range.
- 2 MPPT trackers.
- Type II SPD on DC/AC.
- 3 inverters in parallel
- 19A MPPT input current per string.
- IP66 protection level.
- Support generator and smart loads.
- Touch screen

System Diagram



Technical Data

MODEL	HN3KS-AH2GT	HN3K6S-AH2GT	HN4K6S-AH2GT	HN5KS-AH2GT	HN6KS-AH2GT
PV Input					
Max. PV Input Power(kW)	4.5	5.5	6	7.5	9
Max. PV Open Circuit Voltage(V)	550				
MPPT Range(Operating Voltage)(VDC)	80-520				
Full Power MPPT Voltage Range(VDC)	117-500V	145-500V	158-500V	197-500V	250-00V
Start-up Voltage(VDC)	100				
Max. Input Current per MPPT(A)	19/19				
Max. Short-circuit Current(A)	25/25				
MPPT Tracker/Strings	2/1				
Nominal Input Voltage(V)	360				
AC Output(On-Grid)					
Nominal Output Power to Grid(kW)	3	3.68	4	5	6
Max. Apparent Power to Grid(kVA)	3	3.68	4	5	6
Max. Apparent Power from Grid(kVA)	3	3.68	4	5	6
Max. Apparent Current from Grid(A)	13.1	16	17.4	21.8	26.1
Nominal Output Current from Grid(A)	13.1	16	17.4	21.8	26.1
Max. Output Current to Grid(A)	13.1	16	17.4	21.8	26.1
Nominal Voltage/Frequency	230V(176V~280V), 50/60Hz, L+N+PE				
Adjustable Power Factor	0.8leading-0.8lagging				
THDI	<2%				
AC Output(BackUp)					
Nominal Output Power(kW)	3	3.68	4	5	6
Max. Apparent Power(kVA)	3	3.68	4	5	6
Nominal Output Current(A)	13.1	16	17.4	21.8	26.1
Max. Output Current(A)	13.1	16	17.4	21.8	26.1
Nominal Voltage/Frequency	230V(176V~238V), 50/60Hz, L+N+PE				
Automatic Switch Time(ms)	<20				
THDu	<2%				
Overload Capacity	110%, 10s / 150%, 5s / 180%, 1s / 200%, 100ms				
Efficiency					
Max. Efficiency	96.13%				
Europe Efficiency	95.50%				
MPPT Efficiency	99.99%				
Max. Battery Charge/Discharge Efficiency	94.60%				
Battery					
Battery Voltage Range(V)	40-60				
Recommended Battery Voltage(V)	48				
Max. Charging Voltage(V)	60				
Max. Charging/Discharging Current(A)	80/80	80/80	80/80	120/120	120/120
Battery Type	Lithium and Lead Acid Battery				
Protection					
DC Switch	Yes				
DC Reverse Polarity Protection	Yes				
DC/AC Surge Protection	Type II/Type II				
AC Overvoltage Protection	Yes				
AC Short-circuit Protection	Yes				
Ground Fault Monitoring	Yes				
Anti-islanding Protection	Yes				
Residual-current Monitoring	Yes				
Insulation Resistance Monitoring	Yes				
Peak/Valley Time Setting	Yes				
General Data					
HMI	Touch LCD & APP				
BMS	RS485, CAN				
EMS/Meter	RS485				
Communication	WiFi/LAN				
Ingress Protection	IP66				
Operating Temperature Range	-25~60℃				
Relative Humidity	0~95%(Non-condensing)				
Max. Operating Altitude	4000m(Derating above 3000m)				
Cooling	Natural				
Noise Emission	≤ 29dB				
Dimensions(W*H*D)	485*525*220mm(without terminal and bracket)				
Net Weight(kg)	23.5	23.5	23.5	24	24
Self-consumption(W)	<15				
Standard Compliance					
Safety Regulation	IEC/EN62109-1/-2				
EMC	IEC/EN61000-6-1/-2/-3/-4				
Grid Regulation	IEC61727, IEC62116, Europe: EN50549, Belgium: C10/T1, Spain: UNE217002, Italy: CEI 021, South Africa: NRS 097				

Product specifications are subject to change without further notice.

Hybrid Battery ESS

Hybrid All IN ONE

Max. on/off-grid output 4800W

NFC

ECU configuration method

5kWh

small size, large capacity

IP65

Waterproof and Shock Resistant

10Years

10 Years Lifespan

-20°C ~ +55°C

Thermal Boosting Technology



Model	L-A50
Battery Info	
Rated Voltage	51.2V
Capacity	5000Wh
Life Cycle (Times)	>6000(25°C)
Battery Type	LiFePO
DoD	90%
Max Charging Power	5000W
AC Input/Output (On Grid)	
Rated Input Power	2.5kVA
Rated Output Power	2.5kVA
Operating Phase	L/N/PE
Rated Grid Voltage	230V
Grid Voltage Range	187V~253V
Rated Grid Frequency	50Hz
Rated Grid Output Current	21.7A
Power Factor	>0.99(Default)/0.8 leading...0.8lagging (Adjustable)
THDi	<3%
Back-up (Off Grid)	
Rated Output Power	5kVA
Max.Apparent Output Power	5.5kVA,10s
Rated Grid Voltage	230V
Rated Output Current	21.7A
Rated Output Voltage Frequency	50Hz
THDu(Linear Load)	<3%
Efficiency	
Battery-AC Side Max.Efficiency	>93.5%
Protection	
Protection Level	I
Overvoltage/Voltage Withstand Level	DCII/ACIII
General	
Isolation Type	Isolated
Operating Temperature Range	-20°C~+55°C(Storage:-30°C~+85°C)
Relative Humidity	0~95%
Ingress Protection	IP65
Cooling Strategy	Natural Convection
Max.Operating Altitude	2000m
On-grid Connection Standard	EN50549-1,VDE4105,0124
Regulatory/EMC	IEC62040,IEC62477/IEC/EN 61000-6-1/-2/-3,-4,IEC/EN 61000-3-2/-3,EN 300328,EN 301489-1/-17, EN50665,CB 62619
Dimension	700*474*150mm
Weight	54±0.5kg
Additional Data	
Display	TFT
Supported Communication Interface	Bluetooth & Wi-Fi
PV Input	
Maximum input voltage (V)	60
Operating voltage range (V)	18-60
Start-up voltage (V)	18
Number of MPPT	4
Input rated current(A)	30*4
Maximum input short circuit current (A)	50*4
Maximum input power(W)	1200W*4

Micro DC ESS

Balcony Micro Energy Storage

S3-20



Safety and Reliability

High-Voltage Cell Boost Technology
Powered By LiFePO4 Batteries

40%+
Volume
reduced

88.2%
Energy density
increased



Product Highlights

2 - 10 kWh

Easily expandable to 10 kWh capacity

 +  = **10 kWh**
S3-20 4 x expansion battery 10 kWh capacity



**Compact Size
Massive Power**

Volume reduced
by over 40%



IP65

IP65 waterproof

-20°C

Operate at -20~55°C



Smart App

Real-time Monitoring
and Control



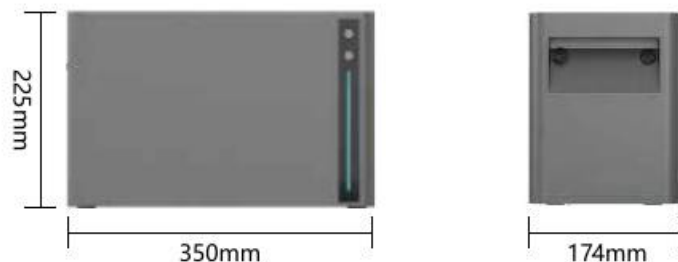
6000

Life Cycles

15years

Lifespan





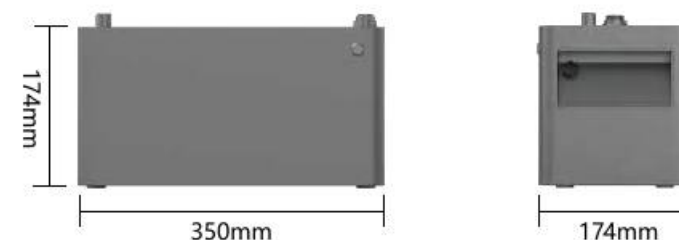
Model		S3-20
PV Input	Recommended Module Power (W)	300-600+
	Maximum PV Input Power (W)	2400
	Startup Voltage (V)	15
	Maximum Single-channel Input Voltage (V)	60
	Single-channel Operating Voltage Range (V)	13-60
	MPPT Voltage Range (V)	20-54
	Single-channel Short-circuit Current (A)	40
	Maximum Single-channel Input Current (A)	32
	Number of Input Channels	2
	Maximum Number of Modules per Channel	2
Battery Info	Battery Type	LFP
	Battery Capacity (kWh)	2.01
	Maximum Expandable Capacity (kWh)	10
	Rated Voltage (V)	51.2
	Operating Voltage Range (V)	43.2-57.6
	Rated Discharge Power (W)	800
	Maximum Discharge Current (A)	30
	Maximum Charge Power (W)	2400(Extended battery pack)
	Rated Discharge Current (A)	25
DC Output	Maximum Output Power (W)	1200
	Maximum Current (A)	30
	Output Voltage Range (V)	20-45
Efficiency	MPPT Efficiency	99.90%
	Battery Charge-Discharge Efficiency	94.00%
General	Dimensions (L×W×H, mm)	350*174*225
	Weight (kg)	20
	Communication	WiFi(BT)+RS485
	Protection Class	IP65
	Cooling Method	Natural Cooling
	Operating temperature	-20~55°C
	Relative Humidity	0-95%, No Condensation
	Maximum Operating Altitude (m)	2000
Certifications		CE; WEEE; UN38.3; ROHS; REACH; IEC62619

Easily connect
expansion battery



2-10 kWh
capacity

Supports connection
of up to 4 Expansion
Batteries



Model		SE-20
battery pack info	Battery Type	LFP
	Battery Capacity (kWh)	2.01
	Rated Voltage (V)	51.2
	Operating Voltage Range (V)	43.2-57.6
	Rated Discharge Power (W)	800
	Maximum Discharge Current (A)	25
General	Dimensions (L×W×H, mm)	350*174*182
	Weight (kg)	18
	Protection Class	IP65
	Cooling Method	Natural Cooling
	Operating temperature	-20~55°C
	Relative Humidity	0-95%, No Condensation
	Maximum Operating Altitude (m)	2000
Certifications		CE; WEEE; UN38.3; ROHS; REACH; IEC62619

Android System AC Chargers

Multiple models available



Wall-mounted AC Chargers



Model	ZAU207T-CS ZAU311T-CS ZAU322T-CS	ZAU207C-CS ZAU311C-CS ZAU322C-CS	ZAU203C-CS ZAU207C-CS
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Product Information

Charging mode	Smart charger		
Input/output power rating and current	7kW/32A; 11kW/16A; 22kW/32A		3.5kW/16A; 7kW/32A
Input/output voltage	200-240V, 50Hz/60Hz; 380-400V, 50Hz/60Hz		200-240V, 50Hz/60Hz
Network type	TT; TN		
Connector type	Type 2 plug		
Protection	Leakage Protection; Overcurrent Protection; Undervoltage/Overvoltage Protection; Lightning Protection; Waterproof Protection; Overheat Protection; CP Malfunction Protection		

General Characteristics

IP and IK rating	IP 65		
Operating altitude	6562 feet(2000m)		
Operating temperature range	-30°C to +50°C		
Storage temperature range	-25°C to +70°C		
Mounting	Wall or on a pedestal		
Dimensions (H×W×D)	405 × 220 × 95 mm	405 × 220 × 95 mm	280 × 170 × 83 mm

User Interface

Status indication	TFT (7 inch TFT 1024*600 2-inch LCD)	LCD(4-inch LCD)	LCD(2-inch LCD)
User interface	EasyCharging APP		
Connectivity	Bluetooth/Wi-Fi, Ethernet/4G/RS485(Optional)		
Communication protocols	MQTT/OCPP1.6J		
User authentication	APP, RFID card		

Software Update

	OTA updates via web portal		
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Certification and Standards

Safety and compliance	EN IEC 61851-1:2019; BS EN IEC 61851-1:2019; IEC 61851-1:2017		
Certification	CE		
Warranty	24 months, warranty extension possible		

Portable AC Chargers



Model

ZBAU322E-CS; ZBAU311E-CS
ZBAU207E-CS; ZBAU203E-CS

Product Information

Charging mode	Smart charger
Input/output power rating and current	3.5kW/16A, 7kW/32A, 11kW/16A; 22kW/32A
Input/output voltage	220-240V, 50Hz/60Hz; 280-400V, 50Hz/60Hz
Network type	TT; TN
Connector type	Type 2 plug
Protection	Leakage Protection; Overcurrent Protection; Undervoltage/Overvoltage Protection; Lightning Protection; Waterproof Protection; Overheat Protection; CP Malfunction Protection

General Characteristics

IP and IK rating	IP 65
Operating altitude	6562 feet(2000m)
Operating temperature range	-30°C to +50°C
Storage temperature range	-25°C to +70°C
Mounting	Free installation
Dimensions (H×W×D)	210 × 90 × 78 mm 210 × 95 × 80 mm

User Interface

Status indication	LED
User interface	EasyCharging APP
Connectivity	Bluetooth, Wi-Fi
User authentication	APP

Software Update OTA updates via web portal

Certification and Standards

Safety and compliance	EN IEC 61851-21-2:2021; EN 62752:2016+A1:2020; EN IEC 62311:2020
Certification	CE
Warranty	24 months, warranty extension possible

Portable AC Chargers



Model

ZBAU207E-CS; ZBAU203E-CS

Product Information

Charging mode	Smart charger
Input/output power rating and current	3.5kW/16A, 7kW/32A;
Input/output voltage	220-240V, 50Hz/60Hz
Network type	TT; TN
Connector type	Type 2 plug
Protection	Leakage Protection; Overcurrent Protection; Undervoltage/Overvoltage Protection; Lightning Protection; Waterproof Protection; Overheat Protection; CP Malfunction Protection

General Characteristics

IP and IK rating	IP 65
Operating altitude	6562 feet(2000m)
Operating temperature range	-30°C to +50°C
Storage temperature range	-25°C to +70°C
Mounting	Portable
Dimensions (H×W×D)	211 × 81.5 × 55 mm 211 × 81.5 × 55 mm 206 × 78 × 59 mm

User Interface

Status indication	LED	LED	LED/LCD(2-inch LCD)
User interface	EasyCharging APP		
Connectivity	Bluetooth, Wi-Fi		
User authentication	APP		

Software Update OTA updates via web portal

Certification and Standards

Safety and compliance	EN IEC 62752:2024; EN IEC 61851-21-2:2021; EN IEC 61000-6-2/-3:2021; EN 61000-6-1:2007
Certification	CE
Warranty	24 months, warranty extension possible

Single phase Smart Meter Device

TW-50-1-EU

Anti-Islanding Protection

When paired with EW microinverters, it enables a fast-response anti-islanding protection function.

EMS

Equipped with EMS functionality

Protocol

Supports HTTP & MQTTS protocols

APP

APP-compatible for end-user control

DIN-rail

DIN-rail mountable



Model description

Model:

TW-50-1-EU

Configuration instructions:

AC90-260V 50/60 HZ

Maximum monitoring current: 50A

Maximum monitored total power: 11.5 KW

Remarks:

Ready for immediate use with Wi-Fi connectivity. It is suitable for basic electrical monitoring in small-scale applications such as communities, factories, and homes, and can also be integrated into larger systematic development projects.



Main functions

1	Network Connectivity	Connects via Wi-Fi to transmit data to the server. Mobile devices can access information through the WeChat Mini Program.
2	Voltage Measurement	Measures real-time voltage of the single-phase circuit once powered on.
3	Current Measurement	Measures real-time current status of the single-phase line using a current transformer.
4	Alarm Function	Monitors the internal temperature of the product.
5	Max. Control Capacity	Supports control for up to 8 Micro-Inverters or circuits.

System parameters

1	The rated voltage range	AC90-260V 50/60HZ
2	Maximum monitoring current	50A
3	Maximum monitored total power	11.5KW
4	Temperature collection range	-20°C ~ 60°C ± 2°C
5	Communication mode	WiFi 2.4G, in compliance with the IEEE 802.11B protocol
6	Voltmeters accuracy	± 1%
7	Ammeters accuracy	± 1% (3-50 A) ± 2% (1-3 A)
8	Operating ambient temperature	-10°C ~ 50°C
9	Storage temperature	-40°C ~ 65°C
10	Operative norm	EMC: EN61326-1; LVD: EN61010-1
11	Attestation	CE, RoHS

Single phase Smart Meter Device

TA-50-3-EU

Anti-Islanding Protection

When paired with EW microinverters, it enables a fast-response anti-islanding protection function.

EMS

Equipped with EMS functionality

Protocol

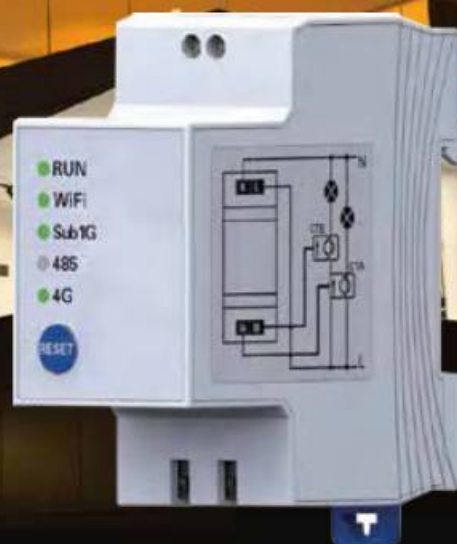
Supports HTTP & MQTTS protocols

APP

APP-compatible for end-user control

DIN-rail

DIN-rail mountable



Model description

Model:

TA-50-3-EU

Configuration instructions:

AC100-275V 50/60 HZ

Maximum monitoring current: 50A

Maximum monitored total power: 11.5 KW

Remarks:

The TA-50-3-EU Smart Meter is an intelligent metering device that provides users with real-time electricity monitoring. It utilizes a Hall-effect current sensor to measure the current in the circuit being tested, combined with direct sampling of the line voltage, to achieve real-time analog-to-digital conversion of circuit power data. The collected data is then aggregated into an MCU (Microcontroller Unit) for computational processing and statistical analysis. This meter is equipped with integrated Wi-Fi, 4G, Bluetooth, RS485, and SUB-1G modules, transmitting real-time monitoring data to the user, enabling them to conduct strategic assessment and management of electricity usage based on the provided information.



Main functions

1	Network Connectivity	This product connects to the internet via its Wi-Fi/4G modules, transmits device data to the server, and allows access to various information through an APP.
2	Voltage Measurement	When powered on, this product can measure the real-time voltage of a single-phase circuit.
3	Current Measurement	Measures the real-time current status of a single-phase line via a current transformer.
4	Alarm Function	Features over-current, over-voltage, and under-voltage alarms.
5	Max. Control Capacity	Supports control for up to 8 Micro-Inverters or circuits.

System parameters

1	Rated voltage range	AC100-275V 50/60HZ
2	Maximum monitoring current	50A
3	Maximum monitored total power	11.5KW
4	Temperature collection range	-20°C ~ 60°C ± 2°C
5	Communication mode	WiFi 2.4G, SUB1G, 4G, RS485
6	Voltmeters accuracy	±1%
7	Ammeters accuracy	±1% (3-50 A) ±2% (1-3 A)
8	Operating ambient temperature	-20°C ~ 50°C
9	Storage temperature	-40°C ~ 65°C
10	Operative norm	EMC: EN61326-1; LVD: EN61010-1
11	Protocol	MQTT, HTTP

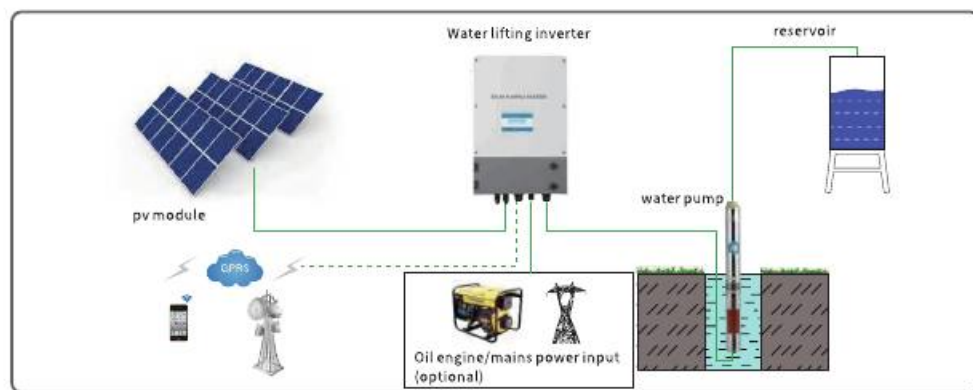


SPRING550-75000

Single phase/three-phase water lifting inverter

- Supports mains/oil engine input(optional),with strong environmental adaptability
- Exquisite structural design,convenient transportation, installation,and use.
- Complete protection and control functions to prevent dry pumping and overflow.
- Rich communication interfaces,RS485/CAN/GPRS optional.
- Advanced MPPT optimization design,fast response,highreliability
- Fully automatic intelligent operation,super strong load capacity,safe and stable.
- IP65 protection level(some models require an outdoor cabinet).
- LCD screen design, rich display content,and storage of operational data for up to 8 years.

System diagram



Selection instructions:

- ①Product series
- ②Rated output power
- ③SL - Output 220V/single-phase; None - Three phase
- ④L-output 220V/three-phase: none - output 380V/three-phase
- ⑤A - Support communication input; None - does not support communication input

The parameters listed on this page are all for models that support input of mains/oil engines (- A). Models without - A do not include AC input parameters, and all other parameter items are the same.

Technical Data

Technical Parameter SPRING 550-SLA SPRING 750-SLA SPRING 1100-SLA SPRING 1500-SLA SPRING 2200-SLA

Photovoltaic input

MPPT channels	1	1	1	1	1
Maximum allowed string count	1	1	1	1	1
Starting voltage (Vdc)	80	80	80	80	80
Maximum input current (A)	9	9	9	11	11
Maximum input voltage (Vdc)	450	450	450	500	500
Recommended MPP voltage (Vdc)	100 ~ 360	100 ~ 360	150 ~ 360	200 ~ 400	270 ~ 400

AC input (single-phase)

Input voltage range (Vac)	220 ± 15%	220 ± 15%	220 ± 15%	220 ± 15%	220 ± 15%
Input frequency range (Hz)	50/60 ± 5	50/60 ± 5	50/60 ± 5	50/60 ± 5	50/60 ± 5

AC output (single-phase)

Rated output power (W)	550	750	1100	1500	2200
Rated voltage (Vac)	220	220	220	220	220
Output voltage range (Vac)	0 ~ 240	0 ~ 240	0 ~ 240	0 ~ 240	0 ~ 240
Output frequency (Hz)	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60
Maximum output current (A)	5	6.3	8.6	10	14

Basic parameters

display form	LCD	LCD	LCD	LCD	LCD
communication interface	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
protection grade	IP65	IP65	IP65	IP65	IP65
Working altitude (m)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)
Cooling method	natural cooling	natural cooling	natural cooling	natural cooling	natural cooling
Working temperature range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60
Dimensions (Depth*Width*Height:mm)	418*288*152	418*288*152	418*288*152	453*288*152	453*288*152
Weight (kg)	7	7	7	8.5	8.5

Technical Parameter SPRING 550-LA SPRING 750-LA SPRING 1100-LA SPRING 1500-LA SPRING 2200-LA

Photovoltaic input

MPPT channels	1	1	1	1	1
Maximum allowed string count	1	1	1	1	1
Starting voltage (Vdc)	80	80	80	80	80
Maximum input current (A)	9	9	9	11	11
Maximum input voltage (Vdc)	450	450	450	450	450
Recommended MPP voltage (Vdc)	100 ~ 360	100 ~ 360	150 ~ 360	200 ~ 360	200 ~ 360

AC input (single-phase)

Input voltage range (Vac)	220 ± 15%	220 ± 15%	220 ± 15%	220 ± 15%	220 ± 15%
Input frequency range (Hz)	50/60 ± 5	50/60 ± 5	50/60 ± 5	50/60 ± 5	50/60 ± 5

AC output (three-phase)

Rated output power (W)	550	750	1100	1500	2200
Rated voltage (Vac)	220	220	220	220	220
Output voltage range (Vac)	0 ~ 240	0 ~ 240	0 ~ 240	0 ~ 240	0 ~ 240
Output frequency (Hz)	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60
Maximum output current (A)	4	5	6	7	11

Basic parameters

display form	LCD	LCD	LCD	LCD	LCD
communication interface	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
protection grade	IP65	IP65	IP65	IP65	IP65
Working altitude (m)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)
Cooling method	natural cooling	natural cooling	natural cooling	natural cooling	natural cooling
Working temperature range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60
Dimensions (Depth*Width*Height:mm)	453*288*152	453*288*152	453*288*152	453*288*152	453*288*152
Weight (kg)	8.5	8.5	8.5	8.5	8.5

Technical Parameter SPRING 3000-A SPRING 4000-A SPRING 5500-A SPRING 7500-A SPRING 9200-A

Photovoltaic input

MPPT channels	1	1	1	1	1
Maximum allowed string count	2	2	2	3	3
Starting voltage (Vdc)	250	250	250	250	250
Maximum input current (A)	9	11	12	19	22
Maximum input voltage (Vdc)	900	900	900	900	900
Recommended MPP voltage (Vdc)	500 ~ 680	500 ~ 680	500 ~ 680	500 ~ 680	500 ~ 680

AC output (three-phase)

Input voltage range (Vac)	380 ± 15%	380 ± 15%	380 ± 15%	380 ± 15%	380 ± 15%
Input frequency range (Hz)	50/60 ± 5	50/60 ± 5	50/60 ± 5	50/60 ± 5	50/60 ± 5

AC output (three-phase)

Rated output power (W)	3000	4000	5500	7500	9200
Rated voltage (Vac)	380	380	380	380	380
Output voltage range (Vac)	0 ~ 440	0 ~ 440	0 ~ 440	0 ~ 440	0 ~ 440
Output frequency (Hz)	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60
Maximum output current (A)	8	10	13	18	21

Basic parameters

display form	LCD	LCD	LCD	LCD	LCD
communication interface	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
protection grade	IP65	IP65	IP65	IP65	IP65
Working altitude (m)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)
Cooling method	natural cooling	natural cooling	natural cooling	natural cooling	natural cooling
Working temperature range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60
Dimensions (Depth * Width * Height mm)	478*325*155	478*325*155	478*325*155	528*346*166	528*346*166
Weight (kg)	12	12	12	14	14

Technical Parameter SPRING 11K-A SPRING 13K-A SPRING 15K-A SPRING 18K5-A SPRING 22K-A

Photovoltaic input

MPPT channels	1	1	1	1	1
Maximum allowed string count	3	6	6	6	6
Starting voltage (Vdc)	250	250	250	250	250
Maximum input current (A)	24	31	32	38	46
Maximum input voltage (Vdc)	900	900	900	900	900
Recommended MPP voltage (Vdc)	500 ~ 680	500 ~ 680	500 ~ 680	500 ~ 680	500 ~ 680

AC output (three-phase)

Input voltage range (Vac)	380 ± 15%	380 ± 15%	380 ± 15%	380 ± 15%	380 ± 15%
Input frequency range (Hz)	50/60 ± 5	50/60 ± 5	50/60 ± 5	50/60 ± 5	50/60 ± 5

AC output (three-phase)

Rated output power (W)	11000	13000	15000	18500	22000
Rated voltage (Vac)	380	380	380	380	380
Output voltage range (Vac)	0 ~ 440	0 ~ 440	0 ~ 440	0 ~ 440	0 ~ 440
Output frequency (Hz)	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60
Maximum output current (A)	24	28	30	39	45

Basic parameters

display form	LCD	LCD	LCD	LCD	LCD
communication interface	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
protection grade	IP65	IP65	IP65	IP65	IP65
Working altitude (m)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)
Cooling method	natural cooling	natural cooling	natural cooling	natural cooling	natural cooling
Working temperature range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60
Dimensions (Depth * Width * Height mm)	528*346*166	583*405*190	583*405*190	583*405*190	583*405*190
Weight (kg)	14	22.5	22.5	22.5	22.5

Technical Parameter SPRING 26K-A SPRING 30K-A SPRING 37K-A

Photovoltaic input

MPPT channels	1	1	1
Maximum allowed string count	8	8	10
Starting voltage (Vdc)	250	250	250
Maximum input current (A)	53	64	78
Maximum input voltage (Vdc)	900	900	900
Recommended MPP voltage (Vdc)	500 ~ 680	500 ~ 680	500 ~ 680

AC input (single-phase)

Input voltage range (Vac)	380 ± 15%	380 ± 15%	380 ± 15%
Input frequency range (Hz)	50/60 ± 5	50/60 ± 5	50/60 ± 5

AC output (single-phase)

Rated output power (W)	26000	30000	37000
Rated voltage (Vac)	380	380	380
Output voltage range (Vac)	0 ~ 440	0 ~ 440	0 ~ 440
Output frequency (Hz)	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60
Maximum output current (A)	54	60	75

Basic parameters

display form	LCD	LCD	LCD
communication interface	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
protection grade	IP65	IP65	IP20
Working altitude (m)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)
Cooling method	natural cooling	natural cooling	natural cooling
Working temperature range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60
Dimensions (Depth * Width * Height mm)	585*476*218	585*476*218	467*260*220
Weight (kg)	21.5	23.5	18.5

Technical Parameter SPRING 45K-A SPRING55K-A SPRING 75K-A

Photovoltaic input

MPPT channels	1	1	1
Maximum allowed string count	12	16	20
Starting voltage (Vdc)	250	250	250
Maximum input current (A)	108	114	160
Maximum input voltage (Vdc)	900	900	900
Recommended MPP voltage (Vdc)	500 ~ 680	500 ~ 680	500 ~ 680

AC input (single-phase)

Input voltage range (Vac)	380 ± 15%	380 ± 15%	380 ± 15%
Input frequency range (Hz)	50/60 ± 5	50/60 ± 5	50/60 ± 5

AC output (three-phase)

Rated output power (W)	45000	55000	75000
Rated voltage (Vac)	380	380	380
Output voltage range (Vac)	0 ~ 440	0 ~ 440	0 ~ 440
Output frequency (Hz)	0 ~ 50/60	0 ~ 50/60	0 ~ 50/60
Maximum output current (A)	91	112	162

Basic parameters

display form	LCD	LCD	LCD
communication interface	RS485/CAN/GPRS	RS485/CAN/GPRS	RS485/CAN/GPRS
protection grade	IP20	IP20	IP20
Working altitude (m)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)	<6000 (>3000 needs to be downgraded)
Cooling method	natural cooling	natural cooling	natural cooling
Working temperature range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60
Dimensions (Depth * Width * Height mm)	546*347*242	546*347*242	546*347*242
Weight (kg)	28	28	28

The Spring 37K water lifting inverter can be optionally equipped with JFYW1-A outdoor cabinet. The outdoor cabinet parameters are as follows: protection level IP54, weight 49kg, size (length * width * height) 650 * 320 * 790mm.

The Spring 45K-75K water lifting inverter can be equipped with JFYW2-A outdoor cabinet, and the parameters of the outdoor cabinet are as follows: The protection level is IP54, the weight is 53kg, and the dimensions (length * width * height) are 750 * 320 * 940mm.