OMEGA

POWERING
BUSINESS
WORLD WIDE

Omega Power Technologies Pvt. Ltd

13-A CANAL PARK, GULLBERG 2, LAHORE PAKISTAN

About Company

At Omega Power , we are dedicated to harnessing solar energy to create a sustainable future. Established in 1987, we specialize in providing cutting-edge solar solutions that empower individuals, businesses, and communities to transition to renewable energy sources.

Company Overview

Omega Power is a leading consultant, manufacturer, and installer of renewable technology products in Pakistan. We take pride in being the first to bring many Tier 1 renewable energy companies to Pakistan, providing them with a platform to offer their top-tier products and services. Quality is our core focus, and we ensure excellence in every aspect of our operations.

Our Comprehensive Services Include:

- Project feasibility studies
- Alternate energy solutions
- Technical consultancy
- Site surveys
- Support services
- Logistics
- Training
- Power and renewable energy services
- Technology and venture business segments

As a technology-driven Engineering, Procurement, and Construction (EPC) company, Omega Power is committed to making solar energy a competitive and reliable energy source in Pakistan and the Middle East. We have successfully completed numerous solar power projects with a strong focus on quality control.
To ensure exceptional after-sales service, we operate nine labs across Pakistan, providing extensive support and maintenance services to our clients. Our robust bankability underscores our financial stability and reliability, making us a trusted partner in the renewable energy sector.

Omega Power is at the forefront of developing, integrating, and delivering the most reliable and cost-effective solar energy solutions in the region. Our commitment to innovation, quality, and customer satisfaction drives us to lead the transition towards a sustainable energy future.

CEO Message

Abdul Waheed
Chief Executive Officer

Omega Power , under the HOPE umbrella, has cultivated a stellar reputation both domestically and internationally, positively impacting the global market. Our core values of respect, honesty, professionalism, and integrity are the cornerstones of our business conduct. We are committed to adhering to the highest standards of ethics, legality, and professionalism in all our operations.

Since our inception in 1987, I am proud to reflect on our journey of growth and transformation. We have evolved from a single firm into a diverse group of companies within the HOPE framework, consistently achieving our objectives and earning the unwavering trust of our customers. Our success is a testament to our relentless commitment to quality and excellence. Looking ahead, our focus remains on innovation and leadership in the renewable energy sector. We will continue to provide top-tier products and unparalleled services to our esteemed customers. With steadfast dedication, we aim to meet and exceed the expectations of those we serve, ensuring their trust and satisfaction.

Thank you for your continued support and confidence in Omega Power.

HOPE
GROUP OF COMPANIES
ILLUMINATING LIVES

Hyquip Source & Services Pvt. Ltd.
Omega Power Technology Pvt. Ltd.
Power Tech International Pvt. Ltd.
Electronic Depots Pvt. Ltd.

Our Values

Sustainability:
We are committed to promoting sustainable practices. Our solar solutions are designed to minimize environmental impact and contribute to a cleaner,
greener Pakistan.

Innovation:
Innovation is at the heart of what we do. We continuously invest in research and development to bring the latest advancements in solar technology to our customers, ensuring they benefit from the most efficient and reliable systems available.

Quality:
Quality is non-negotiable at Omega Power. From the materials we use in our products, we adhere to the highest standards to ensure our systems perform optimally and stand the test of time.

Customer-Centric Approach:
Our customers are at the center of everything we do. We take pride in providing personalized service, from the initial consultation through to installation and maintenance. Our goal is to exceed your expectations at every step.

What We Do?

Residential Solutions
2Kw-20Kw

We develop solar power products for homes, helping homeowners reduce their energy bills and carbon footprint. Our residential solutions are tailored to meet the unique needs of each household, ensuring maximum efficiency and savings.

Commercial Solutions
30Kw-100Kw

Our commercial solar products are designed to help businesses of all sizes reduce operational costs and achieve sustainability goals. From small offices to large industrial facilities, we provide scalable solutions that deliver significant financial and environmental benefits.

Community Projects
>100Kw

We believe in the power of community and are proud to partner with many universities and organizations to install community solar projects. These initiatives bring clean energy to underserved areas, electricity power saving and fostering economic growth.

Solar Inverter

OMEGA

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Breeze

INFINI V IV 6KW TWIN

High Frequency MPPT Hybrid Solar Inverter

Continous Working Solar Inverter without Battery

- Maximum PV input current 27A
- Dual outputs for smart load management
- Touchable button with 4.3" colored LCD Self-consumption
- and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable nultiple operation modes:Grid-tie,
- off-grid and grid-tie with backup
- Built-in Wi-Fi for mobile monitoring (App is available)
- Reserved communication port for BMS
- Parallel operation up to 9 units

Solar Inverter

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Breeze

Omega Power UAN # +92-309-4099000

Infini V IV 6kW TWIN SOLAR INVERTER SPECIFICATION

MODEL	Infini V IV 6KW TWIN
	
PHASE	1-phase in / 1-phase out
MAXIMUM PV INPUT POWER	7000W
RATED OUTPUT POWER	6000W
MAXIMUM CHARGING POWER	6000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sinewave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	120A
Maximum Charging Current	120A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	12
INTERFACE	
Parallel Function	Yes, 9 units
Communication Port	USB/RS232/RS485/Wifi/Dry-contact
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	-10 to 50°C

Product specifications are subject to change without further notice.

Solar Inverter

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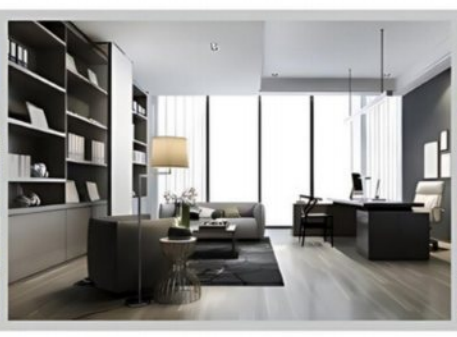
New Series Sigma Plus

High Frequency MPPT Hybrid Solar Inverter

Continous Working Solar Inverter without Battery

- Status indication with RGB lights
- Maximum PV input current 27A
- Dual output for smart load management
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Optional DC output for DC fan, LED bulb, router and so on (only for 8K model)
- Parallel operation with 6 units



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Omega Power UAN # +92-309-4099000

SIGMA PLUS 8KVA/11KVA SOLAR INVERTER SPECIFICATION

MODEL	SIGMA PLUS 8KW	SIGMA PLUS 11KW
		
Rated Power	8000VA/8000W	11000VA/11000W
Parallel Capability	YES, 6 units	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
Optional DC Voltage	12 VDC ± 5%, 100W	N/A
BATTERY		
Battery Voltage	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC
Overcharge Protection	66 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Power	11000W (5500W x 2)	12000W (6000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Input Current	27A x 2(MAX 40A)	
Maxmum Solar Charge Current	120 A	150 A
Maximum AC Charge Current	120 A	150 A
Maximum Charge Current	120 A	150 A
PHYSICAL		
Dimension, D x W x H (mm)	147.4 x 432.5 x 553.6	
Net Weight (kgs)	18.4	
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
STANDARD		
Compliance Safety	CE	

Product specifications are subject to change without further notice

DELTAPOWER

GREEN, CLEAN, SMART

HYBRID INVERTER

DP Prime 6KW & DP Max 4KW

High Frequency MPPT Hybrid Solar Inverter

- A combination of inverter, solar charger and battery charger.
- Powerful bypass function with uninterrupted power supply function.
- Configurable AC/Solar input priority via LCD setting.
- Compatible with mains voltage or generator power.
- Overload, short circuit, over discharge protection.
- Status indication with RGB lights.
- Touch screen control module with various communications.
- Self-consumption and Feed-in to the grid.
- Compatible with AGM/Sealed, Gel, Flooded, Lithium batteries and a User Mode for custom inputs to work with virtually all battery types.
- MPPT solar charge controller to maximize and regulate DC power from the solar array to charge the battery bank.
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup.

DELTAPOWER
GREEN, CLEAN, SMART

DATASHEET	4KW	6KW
Max. PV Array Power	5000W	6500W
Rated Output Power	4000W	6000W
Maximum PV Array Open Circuit Voltage	500VDC	500VDC
MPPT Range @ Operating Voltage	60Vdc-450Vdc	
MPPT Tracker Number	1	
GRID-TIE OPERATION		
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)	
Nominal Output Current	14.5A	26.1A
Power Factor	> 0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	95%	95%
OFF-GRID, HYBRID OPERATION		
GRID INPUT		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Maximum AC Input Current	40A	40A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	93%	
BATTERY & CHARGER		
Nominal DC Voltage	24Vdc	48Vdc
Maximum Solar Charge Current	120 A	120 A
Maximum AC Charge Current	100 A	100 A
Maximum Charge Current	120 A	
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	128*300*440	
Net Weight (kgs)	8.7	10.6
INTERFACE		
Communication Ports	USB/RS232/RS485/WIFI	
ENVIRONMENT		
Humidity	0 ~ 90% RH (Non-condensing)	
Operating Temperature	-10°C to 50°C	

Product specifications are subject to change without further notice.

Solar Inverter

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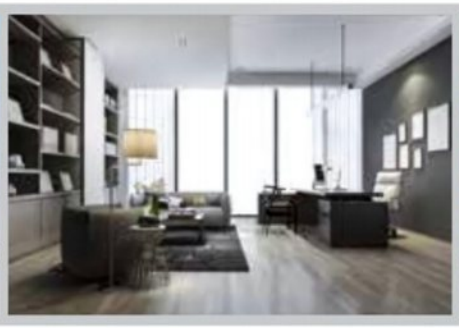
PORSCHE OMP-14/PORSCHE OMP-24

- Upgraded generation smart and intelligent solar inverter
- Wide input voltage range
- New Samrt LCD Display for complete information
- Battery equalization
- Adaptable to Grid voltage / Generator Power
- Configurable AC/ Solar input priority via LCD Setting
- Advanced MPPT Solar Charger 50A Upgraded Omega Porsche Series



Solar Inverter

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Omega Power UAN # +92-309-4099000

Porsche OMP -14/Porsche OMP -24 SOLAR INVERTER SELECTION

MODEL	Porsche OMP -14	Porsche OMP -24
		
CAPACITY	1400VA / 900W	2400VA / 1600W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	90 - 280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230 VAC ±10%	
Overload Capability	Load >110%±15%, alarm 5 minutes and then inverter fault If decreasing the load until lower than 100%, the overload alarm can release. Load >130% ±15%, inverter fault immediately.	
Efficiency (Peak)	82%	85%
Transfer Time	20 ms	
Waveform	Simulated Sine Wave	
BATTERY		
Battery Voltage	12 VDC	24 VDC
Floating Charge Voltage	13.7 VDC ± 0.5 VDC	27.4 VDC ± 0.5 VDC
Overcharge Protection	15.0VDC ± 0.5 VDC	30.0VDC ±1 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	MPPT
Maximum PV Array Open Circuit Voltage	100 VDC	100 VDC
Maximum PV Array Power	600 W	1200 W
MPP Range @ Operating Voltage	15 ~ 80 VDC	30 ~ 80 VDC
Maxmum Solar Charge Current	50A	50A
Maximum AC Charge Current	10A /20A	10A/20A
Maximum Charge Current	50A	50A
PHYSICAL		
Dimension, D X W X H (mm)	272 x 212 x 127	
Net Weight (kgs)	4.5	4.8
OPERATING ENVIRONMENT		
Humidity	0 to 90% Relative Humidity (Non-condensing)	
Operating Temperature	0°C to 40°C	
Storage Temperature	-15°C to 50°C	

Product specifications are subject to change without further notice

HIP6000OM-D

On-grid/Off-grid Hybrid Energy Storage PV Inverter

SPECIFICATIONS

OMEGA POWERING BUSINESS WORLD WIDE

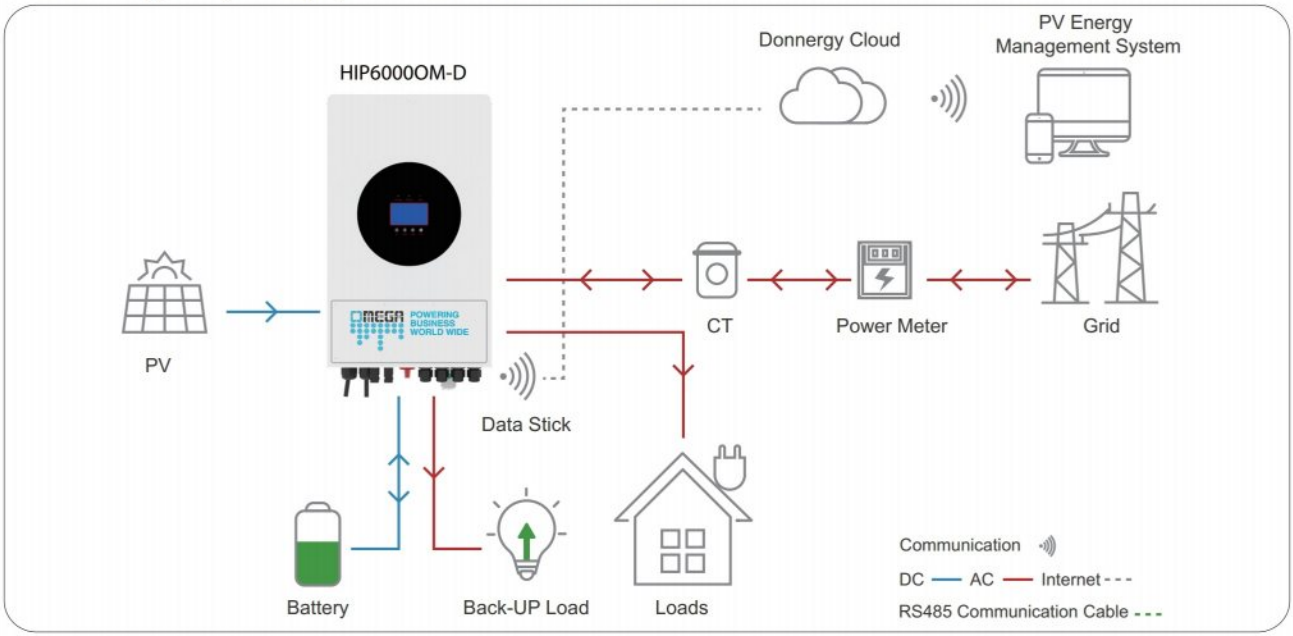
5 YEAR WARRANTY

Featu res

- Multiple operating modes, on-grid, off-grid and UPS, MPPT charger built in.
- Controlled by built-in DSP and adopt advanced SPWM technology.
- APP — Integrated smart APP, can remotely diagnose and update.
- Droop control, Max 6pcs in parallel.
- Suitable for customizing various PV Energy Storage System.
- 48V — Compatible with almost all 48V LiFePO4 battery pack.

This On-grid/Off-grid Hybrid PV Inverter has both Grid-tied/Off-grid and Energy Storage Function:

- Power gen erated by the PV arr ay or from the Utility Grid can be stored in a battery or to be used to power your loads.
- Power gen erated by the PV arr ay or stored inside the battery can be sold to the Utility Grid or to be used to power your loads.
- Featured with UPS function, ensure that the load is not powered off.
- Cloud energy management Ap p for data collection and remote control.



GH6000TL-LP | Specifications

Model	HIP6000-D
PV input	
Max Input Power	7000
Max Input Voltage	500V
Start-up voltage	150V
PV input range	360V (100V~500V)
MPPT voltage range	120V~450V
MPPT qty	2
Max input current	15A/15A
Output/Input (AC)	
rated power output	6000W
Max output power	6000VA
Rated output current	26.1A
Max output current	28.7A
Grid voltage type	230Vac (single phase)
Rated grid frequency	50Hz/60Hz(option)
off grid output	
Max output power	6000W
Rated output voltage	230Vac (single phase)
Rated output frequency	50Hz/60Hz(option)
Shift time	≤10ms
Total harmonic distortion (linear load)	THD<3% (Linear load<1.5%)
Battery	
Battery voltage range	40~60V
Max battery charge current	100A
Max battery discharge current	130A
Battery type	Lead-acid or Lithium-ion
Communication port	RS485; CAN
Efficiency	
Max efficiency	97%
Eu efficiency	97%
Mppt efficiency	99.9%
Max battery to Ac effiency	94%
System	
Protection Level	IP65
Operating Temperature Range	-25~60 , >45 Derating
Relative Humidity	0-95%
Cooling Method	Smart cooling
Altitude above sea leavel	Under 2000m
Display	LCD
Communication	RS485/USB/CAN/Wifi(GPRS option)
Warranty	5 years （standard）
Mechanical	
Size(L*W*H ）	580*350*280
Installation method	Wall
Weight	25Kg

ON/OFF GRID HYBRID SOLAR INVERTER

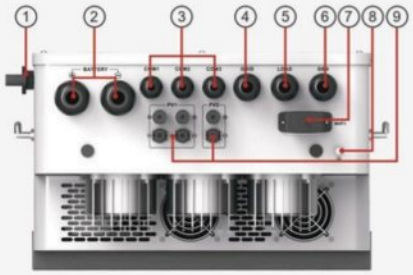
PH1100 EU Series

5~12KW | Three Phase | 380VAC

PH1100 EU is brand new three phase hybrid inverter with low battery voltage 48V, ensuring system safe and reliable. With compact design and high-power density, this series supports 1.3 DC/AC ratio, saving device investment. It supports three phase unbalanced output, extending the application scenarios. Equipped with CAN port (x2) BMS and parallel, x1 RS485 port for BMS, x1 RS232 port for remotely control, x1 DRM port, which makes the system smart and flexible.

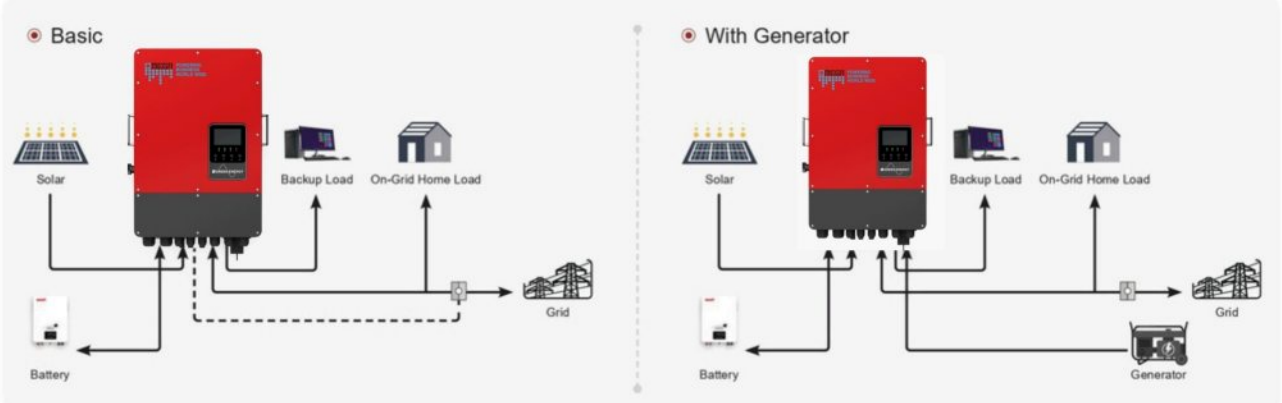
- 100% unbalanced output, each phase max. output up to 50% rated power
- Max. 6 pcs parallel for on-grid and off-grid operation
- AC couple to retrofifit existing solar system
- Support multiple batteries parallel
- Max. charging/discharging current of 240A
- Support storing energy from diesel generator
- 48V low voltage battery, transformer isolation design
- IP65 water-proof and dust-proof
- "Time of use" function: a maximum of 6 time segments can be set
- Wifi monitoring

Back panel description



1. DC switch
2. Battery input connectors
3. BTS terminals, BMS terminals, load monitor terminals, dry contact terminals, CAN communication terminals, USB terminal and cover
4. Circuit breaker of Grid
5. Load
6. Generator input
7. WiFi Interface
8. Ground
9. PV input with two MPPT

Solar system connection



MODEL	PH11-8KL1-EU	PH11-10KL1-EU	PH11-12KL1-EU
Rated power	8000W	10000W	12000W
BATTERY INPUT DATA			
Battery type	Lead-acid battery / Lithium battery		
Battery voltage range	40~60V		
Max. Charging Current	190A	220A	250A
Max. Discharging Current	190A	220A	250A
External Temperature Sensor	Yes		
Charging Curve	3 Stages / Equalization		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV STRING INPUT DATA			
Max. DC Input Power	10400W	13000W	15600W
PV Input Voltage(V)	370V (125V~500V)		
MPPT Range(V)	150~425V		
Full Load DC Voltage Range	200~425V		
Start-up Voltage(V)	125V		
PV Input Current(A)	20+20	26+26+26	26+26+26
No. of MPPT Trackers	2	3	3
No. of Strings Per MPPT Tracker	1+1	1+1+1	1+1+1
AC INPUT/OUTPUT DATA			
Rated AC Output Power	8000W	10000W	12000W
Max AC Output Power	8800W	11000W	13200W
AC Input/Output Rated Current	36.4/34.8A	45.5/43.5A	54.6/52.2A
Max.AC Input/Output Current	40/38.3A	50/47.9A	60/57.4A
Max Continuous AC Passthrough	50A	60A	60A
Peak Power (off grid)	2 times of rated power, 10 S		
Power Factor	0.8 leading - 0.8 lagging		
AC Output Frequency and Voltage	50/60Hz; 220/230Vac		
Grid Type	Single Phase		
Total Harmonic Distortion (THDi)	<3% (of nominal power)		
DC Current Injection	<0.5% (Rated Current)		
EFFICIENCY			
Max. Efficiency	97.6%		
Euro Efficiency	96.5%		
MPPT Efficiency	>99%		
PROTECTION			
Integrated	PV Arc Fault Detection, PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection,Over Voltage Category		
Surge Protection	DC Type II/ AC Type III	DC Type II/ AC Type II	DC Type II/ AC Type II
Overvoltage Category	DC Type II/ AC Type III	DC Type II/ AC Type III	DC Type II/ AC Type III
GENERAL DATA			
Operating Temperature Range	-40~60°C, >45°C Derating		
Cooling	Smart cooling		
Noise	≤55dB		
Communication with BMS	RS485/CAN		
Monitoring mode	WiFi/ APP		
Machine Dimension (W*H*D)(mm)	426*526*255 (Excluding connectors and brackets)	446*576*254 (Excluding connectors and brackets)	
Package Dimension (W*H*D)(mm)	/	/	
N.W(kg)	29	31	
G.W(kg)	/	/	
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 Year		
CERTIFICATION & STANDARDS			

Grid Regulation: IEC 61727/IEC 62116,EN 50549-1; Safety EMC / Standard: IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2

SOFAR 3K~6KTLM-G3

3 / 3.6 / 4 / 4.6 / 5 / 6 kW

SINGLE-PHASE DUAL MPPT

Product advantages

- Max. efficiency up to 98.4%
- Compact design, lightweight
- Two MPPTs with 150% DC overload
- Natural cooling, no fans, low noise
- Feed-in limitation function
- RS485/Bluetooth, Optional: WiFi/Ethernet

SOFAR 3K~6KTLM-G3

3 / 3.6 / 4 / 4.6 / 5 / 6 kW

SINGLE-PHASE DUAL MPPT

Model	SOFAR 3KTLM-G3	SOFAR 3.6KTLM-G3-J*	SOFAR 3.6KTLM-G3	SOFAR 4KTLM-G3	SOFAR 4.6KTLM-G3	SOFAR 5KTLM-G3	SOFAR 5KTLM-G3-A	SOFAR 6KTLM-G3
Input (DC)								
Max. input voltage	600V							
Rated input voltage	380V							
Start-up voltage	90V							
MPPT operating voltage range	80V-550V							
Number of MPP trackers	2							
Number of DC inputs	1 for each MPPT							
Max. input MPPT current	15A/15A							
Max. input short circuit current	22.5A/22.5A							
Output (AC)								
Rated output power	3000W	3600W	3680W	4000W	4600W	5000W	5000W	6000W
Max. apparent power	3300VA	3600VA	3680VA	4400VA	4600VA	5500VA	5000VA	6000VA
Max. output current	15A	16A	16A	20A	23A	25A	21.7A	29A
Rated output voltage	L/N/PE 230Vac							
Output voltage range	180Vac-276Vac							
Rated output frequency	50/60Hz							
Output frequency range	45Hz-55Hz/55Hz-65Hz							
Active power adjustable range	0-100%							
THDi	<3%							
Power factor	1 (adjustable +/-0.8)							
Efficiency								
Max. efficiency	98.2%	98.2%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European efficiency	97.3%	97.3%	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Protection								
DC reverse polarity protection	Yes							
Anti-islanding protection	Yes							
Leakage current protection	Yes							
Ground fault monitoring	Yes							
PV-array string fault monitoring	Yes							
DC switch	Yes							
SPD	PV: type III, AC: type III							
General Data								
Ambient temperature range	-30°C~+60°C							
Self-consumption at night	<1W							
Topology	Transformerless							
Degree of protection	IP65							
Allowable relative humidity range	0-100%							
Max. operating altitude	4000m							
Cooling	Natural							
Dimension (W*H*D)	349*344*164mm							
Weight	9.2kg				10kg			
Display	LCD & Bluetooth +APP							
Communication	RS485/WiFi							
Standard	IEC/EN 61000-6-2/3, IEC/EN 61000-3-2/3, IEC/EN 61000-3-11/12,IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, VDE-AR-N 4105, VDE V 0126-1-1, CEI0-21, C10/11, UNE 217002: 2020, G98/G99, EN 50549-1, ANRE 208							

*SOFAR 3.6KTLM-G3-J is only for Jordan.

*All specifications are subject to change without notice.

SOFAR 3.3K~12KTLX-G3

3.3 / 4.4 / 5.5 / 6.6 / 8.8 / 11 / 10 / 12 kW

THREE-PHASE DUAL MPPT

Product advantages

- Maximum efficiency 98.6%
- Low start-up voltage, wide MPPT voltage
- Maximum DC input voltage 1100 V
- Smart string level monitoring
- Remote firmware upgrade
- Natural cooling, no fans, low noise
- Type II SPD for both DC and AC side

SOFAR 3.3K~12KTLX-G3

3.3 / 4.4 / 5.5 / 6.6 / 8.8 / 11 / 10 / 12 kW

THREE-PHASE DUAL MPPT

Model	SOFAR 3.3KTLX-G3	SOFAR 4.4KTLX-G3	SOFAR 5.5KTLX-G3	SOFAR 6.6KTLX-G3	SOFAR 8.8KTLX-G3	SOFAR 11KTLX-G3	SOFAR 10KTLX-G3-A	SOFAR 12KTLX-G3
Input (DC)								
Max. input voltage	1100V							
Rated input voltage	650V							
Start-up voltage	160V							
MPPT operating voltage range	140V~1000V							
Number of MPP trackers	2							
Number of DC inputs	1/1						1/2	
Max. input MPPT current	15A/15A						15A/30A	
Max. input short circuit current	22.5A/22.5A						22.5A/45A	
Output (AC)								
Rated output power	3000W	4000W	5000W	6000W	8000W	10000W	10000W	12000W
Max. apparent power	3300VA	4400VA	5500VA	6600VA	8800VA	11000VA	10000VA	13200VA
Max. output current	5A	6.7A	8.3A	10A	13.3A	16.7A	15.2A	20A
Rated output voltage	3/N/PE, 230/400Vac							
Output voltage range	310Vac~480Vac							
Rated output frequency	50/60Hz							
Output frequency range	45Hz~55Hz/55Hz~65Hz							
Active power adjustable range	0~100%							
THDi	<3%							
Power factor	1 (adjustable+/-0.8)							
Efficiency								
Max. efficiency	98.40%	98.40%	98.40%	98.40%	98.50%	98.50%	98.50%	98.50%
European efficiency	97.50%	97.50%	97.50%	97.50%	98.00%	98.00%	98.00%	98.00%
Protection								
DC reverse polarity protection	Yes							
Anti-islanding protection	Yes							
Leakage current protection	Yes							
Ground fault monitoring	Yes							
PV-array string fault monitoring	Yes							
DC switch	Yes							
SPD	PV: type II, AC: type II							
General Data								
Ambient temperature range	-30℃~+60℃							
Self-consumption at night	<1W							
Topology	Transformerless							
Degree of protection	IP65							
Allowable relative humidity range	0~100%							
Max. operating altitude	4000m							
Cooling	Natural							
Dimension (W×H×D)	430×385×182mm							
Weight	17kg					18kg		
Display	LCD & Bluetooth +APP							
Communication	RS485/WiFi							
Standard	IEC/EN 61000-6-1/3, IEC/EN 61000-3-2/3, IEC/EN 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, G98/G99, CEI0-21, VDE-AR-N 4105, VDE V 0126-1-1, EN 50549-1, UNE 217002-2020							

*All specifications are subject to change without notice.

SOFAR 15K~24KTLX-G3

15 / 17 / 20 / 22 / 24 kW

THREE-PHASE DUAL MPPT

Product advantages

- Maximum efficiency 98.6%
- Low start-up voltage, wide MPPT voltage
- Maximum DC input voltage 1100 V
- Smart string level monitoring
- Type II SPD for both DC and AC side
- Remote firmware upgrade
- 110% long-time overload ability

SOFAR 15K~24KTLX-G3

15 / 17 / 20 / 22 / 24 kW

THREE-PHASE DUAL MPPT

Model	SOFAR 15KTLX-G3	SOFAR 17KTLX-G3	SOFAR 20KTLX-G3	SOFAR 22KTLX-G3	SOFAR 24KTLX-G3
Input (DC)					
Max. input voltage	1100V				
Rated input voltage	650V				
Start-up voltage	160V				
MPPT operating voltage range	140V~1000V				
Number of MPP trackers	2				
Number of DC inputs	2/2				
Max. input MPPT current	26A/26A	26A/26A	26A/26A	26A/26A	26A/26A
Max. input short circuit current	36A/36A	36A/36A	36A/36A	36A/36A	36A/36A
Output (AC)					
Rated output power	15000W	17000W	20000W	22000W	24000W
Max. apparent power	16500VA	18700VA	22000VA	24200VA	26400VA
Max. output current	23.9A	27.1A	31.9A	35.1A	38.3A
Rated output voltage	3/N/PE, 230V/400Vac				
Output voltage range	310Vac~480Vac				
Rated output frequency	50/60Hz				
Output frequency range	45Hz~55Hz/55Hz~65Hz				
Active power adjustable range	0~100%				
THDi	<3%				
Power factor	1 (adjustable +/-0.8)				
Efficiency					
Max. efficiency	98.6%	98.6%	98.6%	98.6%	98.6%
European efficiency	98.2%	98.2%	98.2%	98.2%	98.2%
Protection					
DC reverse polarity protection	Yes				
Anti-islanding protection	Yes				
Leakage current protection	Yes				
Ground fault monitoring	Yes				
PV-array string fault monitoring	Yes				
DC switch	Yes				
SPD	PV: type II, AC: type II				
General Data					
Ambient temperature range	-30°C~+60°C				
Self-consumption at night	<1W				
Topology	Transformerless				
Degree of protection	IP65				
Allowable relative humidity range	0~100%				
Max. operating altitude	4000m				
Cooling	Smart air cooling				
Dimension (W*H*D)	520*430*189mm				
Weight	20kg	22kg	22kg	23kg	23kg
Display	LCD & Bluetooth + APP				
Communication	RS485/WiFi				
Standard	IEC/EN 61000-6-1/3, IEC/EN 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, G99, VDE-AR-N 4105, VDE V 0126-1-1, CEI0-21, EN 50549-1, NRS 097-2-1				

*All specifications are subject to change without notice.

HYD 3000~6000-EP

3000 / 3680 / 4000 / 4600 / 5000 / 5500 / 6000 W

SINGLE-PHASE ENERGY STORAGE INTEGRATED INVERTER

Product advantages

- Various operational modes available
- Smart fanless cooling design
- Flexible configuration, allowing both lead-acid and lithium batteries
- EPS function (switchover time less than 10 ms)
- Feed-in limitation function
- Supports both on- and off-grid operation
- IP65 design for outdoor

HYD 3000~6000-EP

3000 / 3680 / 4000 / 4600 / 5000 / 5500 / 6000 W

SINGLE-PHASE ENERGY STORAGE INTEGRATED INVERTER

Model	HYD 3000-EP	HYD 3680-EP	HYD 4000-EP	HYD 4600-EP	HYD 5000-EP	HYD 5500-EP	HYD 6000-EP
PV Input							
Recommended Max. PV Input Power	4500Wp	5400Wp	6000Wp	6900Wp	7500Wp	7500Wp	9000Wp
Max. Input Voltage	550 Vd.c.						
Start-up Voltage	100 Vd.c.						
Rated Input Voltage	360 Vd.c.						
MPPT Voltage Range	85-520 Vd.c.						
Number of MPPT Trackers	1/1						
Max. Input Current	13/13 A						
Max. Isc	18/18 A						
Battery							
Voltage Range	42-58 Vd.c.						
Number of Battery Input Channels	1						
Max. Charging Power	3.75 kW	4 kW	4.25 kW	5 kW	5 kW	5 kW	5 kW
Max. Discharging Power	3.75 kW	4 kW	4.25 kW	5 kW	5 kW	5 kW	5 kW
Max. Charging Current	75 A	80 A	85 A	100 A	100 A	100 A	100 A
Max. Discharging Current	75 A	80 A	85 A	100 A	100 A	100 A	100 A
Battery Type [1]	Lithium-ion & Lead-acid						
BMS Communication	CAN/RS485						
AC Input(Grid)							
Rated Input Voltage	L+N+PE,230 Va.c.						
Rated Input Frequency	50/60 Hz						
Max. Input Current	29.3 A	33.4 A	35.9 A	41.7 A	43.5 A	43.5 A	43.5 A
AC Output(Backup)							
Rated Output Voltage	L+N+PE,230 Va.c.						
Rated Output Frequency	50/60 Hz						
Rated Output Power	3 kW	3.68 kW	4 kW	4.6 kW	5 kW	5 kW	5 kW
Rated Output Current	13.0 A	16.0 A	17.4 A	20.0 A	21.7 A	21.7 A	21.7 A
Rated Apparent Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	5 kVA	5 kVA
Max. Apparent Power	3 kVA	3.68 kVA	4 kVA	4.6 kVA	5 kVA	5 kVA	5 kVA
Max. Output Current	13.0 A	16.0 A	17.4 A	20.0 A	21.7 A	21.7 A	21.7 A
Peak Output Apparent Power	4500VA, 30s	4800VA, 30s	5100VA,30s	6000VA, 30s	6000VA, 30s	6000VA, 30s	6000VA, 30s
THDv(@ linear load)	<3%						
Switching Time	10ms default						
AC Output(Grid)							
Rated Output Voltage	L+N+PE,230 Va.c.						
Rated Output Frequency	50/60 Hz						
Rated Output Power	3 kW	3.68 kW	4 kW	4.6 kW	5 kW	5 kW	6 kW
Rated Output Current	13.0 A	16.0 A	17.4 A	20.0 A	21.7 A	21.7 A	26.1 A
Max. Apparent Power	3.3 kVA	3.68 kVA	4.4 kVA	4.6 kVA	5 kVA	5.5 kVA	6 kVA
Max. Output Current	14.3 A	16.0 A	19.1 A	20.0 A	21.7 A	23.9 A	26.1 A
THDi	<3%						
Power Factor Range	0.8 lagging-0.8 leading						
Efficiency							
Max. MPPT Efficiency	99.9%						
Max. Efficiency	97.6%	97.6%	97.6%	97.8%	97.8%	97.8%	98.0%
European Efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.3%	97.5%
Max. efficiency of Charging/Discharging [2]	94.6%						
Protection							
DC Switch	Yes						
PV Reverse Connection Protection	Yes						
Output Short Circuit Protection	Yes						
Output Overcurrent Protection	Yes						
Output Overvoltage Protection	Yes						
Insulation Impedance Detection	Yes						
Residual Current Detection	Yes						
Anti-island Protection	Yes						
Surge protection	PV: Type III, AC: Type III						
General Parameter							
Inverter Topology	High-frequency Isolation (For Battery)						
Protective class	Class I						
IP Rating	IP65						
Overvoltage Category	AC III, DC II						
Operating Temperature Range	-30°C~+60°C (derating above +45°C)						
Relative Humidity Range	5%~95%						
Max. Operating Altitude	4000m (derating above 2000m)						
Standby Self-consumption [3]	<10W						
Installation Method	Wall Mounted						
Dimensions (W*H*D)	482*503*183mm						
Cooling Mode	Natural						
Weight	21.5kg						
Communication	CAN/RS485/WiFi, Optional: 4G/LAN						
Display	LCD & APP						

[1] Please refer to document "SOFAR inverter Model compatible battery list" [2] Battery-AC maximum efficiency of battery charge and discharge [3] Standby loss at rated input voltage

*All specifications are subject to change without notice.

HYD 5~20KTL-3PH

5 / 6 / 8 / 10 / 10 / 15 / 20 kW

THREE-PHASE ENERGY STORAGE INTEGRATED INVERTER

Product advantages

- Various operational modes for optimal performance
- Off-grid output can be connected to unbalanced load, three-phase separate output is supported
- Up to 2 MPPTs, allowing a flexible configuration
- Multiple parallel systems, more flexible system solutions
- Maximum two battery inputs
- Fully digital operation, enabling higher control accuracy

HYD 5~20KTL-3PH

5 / 6 / 8 / 10 / 10 / 15 / 20 kW

THREE-PHASE ENERGY STORAGE INTEGRATED INVERTER

Model	HYD 5KTL-3PH	HYD 6KTL-3PH	HYD 8KTL-3PH	HYD 10KTL-3PH	HYD 10KTL-3PH-A	HYD 15KTL-3PH	HYD 20KTL-3PH
PV Input							
Recommended Max. PV Power	7500Wp	9000Wp	12000Wp	15000Wp	15000Wp	22500Wp	30000Wp
Max. Input Voltage	1000 Vd.c.						
Start-up Voltage	200 Vd.c.						
Rated Input Voltage	600 Vd.c.						
MPPT Voltage Range	180~960 Vd.c.						
Number of MPPT Trackers	1/1			2/2			
Max. Input Current	12.5/12.5 A			25/25 A			
Max. Isc	15/15 A			30/30 A			
Battery							
Voltage Range	180~800 Vd.c.						
Number of Battery Input Channels	1			2			
Max. Charging Power	5 kW	6 kW	8 kW	10/10 kW	10/10 kW	15/15 kW	20/20 kW
Max. Discharging Power	5 kW	6 kW	8 kW	10/10 kW	10/10 kW	15/15 kW	20/20 kW
Max. Charging Current	25 A	25 A	25 A	25/25 A	25/25 A	25/25 A	25/25 A
Max. Discharging Current	25 A	25 A	25 A	25/25 A	25/25 A	25/25 A	25/25 A
Battery Type [1]	Lithium-ion & Lead-acid						
BMS Communication	CAN/RS485						
AC Input(Grid)							
Rated Input Voltage	3(N)~+PE,380/400/415 Va.c.						
Rated Input Frequency	50/60 Hz						
Max. Input Current	15.2/14.5/13.9 A	18.2/17.4/16.7 A	24.2/23.2/22.2 A	30.3/29.0/27.8 A	30.3/29.0/27.8 A	45.5/43.5/41.7 A	60.6/58.0/55.6 A
AC Output(Backup)							
Rated Output Voltage	3N~+PE,380/400/415 Va.c.						
Rated Output Frequency	50/60 Hz						
Rated Output Power	5 kW	6 kW	8 kW	10 kW	10 kW	15 kW	20 kW
Rated Output Current	7.6/7.2/6.9 A	9.1/8.7/8.3 A	12.1/11.6/11.1 A	15.2/14.5/13.9 A	15.2/14.5/13.9 A	22.7/21.7/20.8 A	30.3/29.0/27.8 A
Rated Apparent Power	5 kVA	6 kVA	8 kVA	10 kVA	10 kVA	15 kVA	20 kVA
Max. Apparent Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	11 kVA	16.5 kVA	22 kVA
Max. Output Current	8.3/8.0/7.6 A	10.0/9.6/9.2 A	13.3/12.8/12.2 A	16.7/15.9/15.3 A	16.7/15.9/15.3 A	25.0/23.9/22.9 A	33.3/31.9/30.6 A
Peak Output Apparent Power	7500VA, 60s	9000VA, 60s	12000VA, 60s	15000VA, 60s	15000VA, 60s	22500VA, 60s	26000VA, 60s
THDv(@ linear load)	<3%						
Switching Time	10ms default						
AC Output(Grid)							
Rated Output Voltage	3(N)~+PE,380/400/415 Va.c.						
Rated Output Frequency	50/60 Hz						
Rated Output Power	5 kW	6 kW	8 kW	10 kW	10 kW	15 kW	20 kW
Rated Output Current	7.6/7.2/6.9 A	9.1/8.7/8.3 A	12.1/11.6/11.1 A	15.2/14.5/13.9 A	15.2/14.5/13.9 A	22.7/21.7/20.8 A	30.3/29.0/27.8 A
Max. Apparent Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	10 kVA	16.5 kVA	22 kVA
Max. Output Current	8.3/8.0/7.6 A	10.0/9.6/9.2 A	13.3/12.8/12.2 A	16.7/15.9/15.3 A	15.2/14.5/13.9 A	25.0/23.9/22.9 A	33.3/31.9/30.6 A
THDi	<3%						
Power Factor Range	0.8 lagging-0.8 leading						
Efficiency							
Max. MPPT Efficiency	99.9%						
Max. Efficiency	98.0%	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
European Efficiency	97.5%	97.5%	97.5%	97.7%	97.7%	97.7%	97.7%
Max. efficiency of Charging/Discharging [2]	97.6%	97.6%	97.6%	97.8%	97.8%	97.8%	97.8%
Protection							
DC Switch	Yes						
PV Reverse Connection Protection	Yes						
Battery Reverse Connection Protection	Yes						
Output Short Circuit Protection	Yes						
Output Overcurrent Protection	Yes						
Output Overvoltage Protection	Yes						
Insulation Impedance Detection	Yes						
Residual Current Detection	Yes						
Anti-island Protection	Yes						
Surge protection	PV: Type II , AC: Type II						
General Parameter							
Inverter Topology	Non-Isolation						
Protective class	Class I						
IP Rating	IP65						
Overvoltage Category	AC III, DC II						
Operating Temperature Range	-30°C~+60°C (derating above +45°C)						
Relative Humidity Range	5%~95%						
Max. Operating Altitude	4000m (derating above 2000m)						
Standby Self-consumption [3]	<25W						
Installation Method	Wall Mounted						
Dimensions (W*H*D)	587*515*261mm						
Cooling Mode	Natural			Forced airflow			
Weight	33kg	33kg	33kg	37kg	37kg	37kg	37kg
Communication	CAN/RS485/WiFi, Optional: 4G/LAN						
Display	LCD & +APP						

[1] Please refer to document "SOFAR inverter Model compatible battery list" [2] Battery-AC maximum efficiency of battery charge and discharge [3] Standby loss at rated input voltage

*All specifications are subject to change without notice.

GOODWE

DNS G3 Series

3-6kW I Single Phase I 2 MPPTs

The GoodWe DNS G3 Series inverter is specially designed for single-phase residential applications. Integrated with high-current input and DC input oversizing capabilities, the series can bring you optimized power generation and make substantial returns. With its lighter and fanless house fit-in compact design, the DNS G3 inverter provides a reliable power supply yet runs at a super quiet operation below 25dB. The inverter also takes safety measures including optional Arc Fault Failure Interrupter (AFCI) and Type II Surge Protection Device (SPD) on both sides to protect the system from electrical fire and lightning hazards in extreme environments for guaranteed safety.

Smart Control & Monitoring

- 24/7 load consumption monitoring*
- Multiple communication protocols supported

Optimal Generation

- Max. 16A input current per string
- 150% DC input oversizing & 110% AC output overloading

Superb Safety & Reliability

- Optional AFCI preventing electrical fires*
- Optional AC & DC Type II SPD & SPD failure alarm*

Friendly & Thoughtful Design

- IP66 ingress protection
- Low noise level thanks to fanless cooling

DNS G3 Series

GOODWE

Technical Data	GW3000-DNS-30			GW5000-DNS-30	
Input					
Max. Input Voltage (V)	600			600	
MPPT Operating Voltage Range (V)	40 ~ 560			40 ~ 560	
Start-up Voltage (V)	50			50	
Nominal Input Voltage (V)	360			360	
Max. Input Current per MPPT (A)	16			16	
Max. Short Circuit Current per MPPT (A)	23			23	
Number of MPP Trackers	2			2	
Number of Strings per MPPT	1			1	
Output					
Nominal Output Power (W)	3000			5000	
Nominal Output Apparent Power (VA)	3000			5000	
Max. AC Active Power (W)*4	3300			5500	
Max. AC Apparent Power (VA)*4	3300			5500	
Nominal Output Voltage (V)	220 / 230 / 240			230 / 240	
Output Voltage Range (V)					
Nominal AC Grid Frequency (Hz)	50 / 60			50 / 60	
AC Grid Frequency Range (Hz)			45 ~ 55 / 55 ~ 65		
Max. Output Current (A)	14.4			24.0	
Power Factor			~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%			<3%	
Efficiency					
Max. Efficiency	97.9%	97.9%	97.9%	97.9%	97.9%
European Efficiency	97.0%	97.0%	97.2%	97.3%	97.4%
Protection					
PV String Current Monitoring	Integrated			Integrated	
PV Insulation Resistance Detection	Integrated			ntegrated	
Residual Current Monitoring	Integrated			Integrated	
PV Reverse Polarity Protection	Integrated			Integrated	
Anti-islanding Protection	Integrated			Integrated	
AC Overcurrent Protection	Integrated			Integrated	
AC Short Circuit Protection	Integrated			Integrated	
AC Overvoltage Protection	Integrated			Integrated	
DC Switch	Integrated			Integrated	
DC Surge Protection			Type III (Type II Optional)		
AC Surge Protection			Type III (Type II Optional)		
AFCI	Optional			Optional	
Emergency Power Off	Optional			Optional	
Remote Shutdown	Optional			Optional	
Power Supply at Night	Optional			Optional	
General Data					
Operating Temperature Range (°C)	-25 ~ +60			-25 ~ +60	
Relative Humidity	0 ~ 100%			0 ~ 100%	
Max. Operating Altitude (m)*3	4000			4000	
Cooling Method			Natural Convection		
Display			LED, LCD (Optional), WLAN + APP		
Communication			WiFi, RS485 or LAN or 4G or DI (Ripple Control or DRM) (Optional)		
Communication Protocols			Modbus-RTU (SunSpec Compliant)		
Weight (kg)	12.8			12.8	
Dimension (W × H × D mm)	350 × 410 × 143			350 × 410 × 143	
Noise Emission (dB)	<25			<25	
Topology	Non-isolated			Non-isolated	
Self-consumption at Night (W)	<1			<1	
Ingress Protection Rating	IP66			IP66	
DC Connector	MC4 (4 ~ 6mm²)			MC4 (4 ~ 6mm²)	
AC Connector					

*: All pictures shown are for reference only. Actual appearance may vary.
*: Optional functions or devices are purchased separately.
*: Please visit GoodWe website for the latest certificates.
*1: For Malaysia GW4200-DNS-30 Nominal Output Power (W) and Nominal Output Apparent Power (VA) and Max. AC Active Power (W) and Max. AC Apparent Power (VA) is 4000.
*2: For Netherland Max. AC Active Power (W) and Max. AC Apparent Power (VA) GW3600-DNS-30 is 3600, GW4200-DNS-30 is 4200; Max. Output Current (A) and Nominal Output Current (A) GW3600-DNS-30 is 15.7, GW4200-DNS-30 is 18.3.
*3: For Australia Max. Operating Altitude (m) GW3000-DNS-30, GW3600-DNS-30, GW4200-DNS-30, GW5000-DNS-30, GW6000-DNS-30 is 3000.
*4: For Chile Max. AC Active Power (W) & Max.Output Apparent Power(VA) GW3000-DNS-30 is 3000, GW3600-DNS-30 is 3600, GW4200-DNS-30 is 4200, GW5000-DNS-30 is 5000, GW6000-DNS-30 is 6000.
*: For Australia Nominal Output Current (A) GW3000-DNS-30 is 14.4, GW3600-DNS-30 is 17.3, GW4200-DNS-30 is 20.1, GW5000-DNS-30 is 24.0, GW6000-DNS-30 is 28.8. For Belgium Nominal Output Current (A) GW3000-DNS-30 is 13.0, GW3600-DNS-30 is 15.7, GW4200-DNS-30 is 18.3, GW5000-DNS-30 is 21.7, GW6000-DNS-30 is 26.1.

GOODWE

SDT G2 PLUS+ Series

4-20kW I Three Phase
2 MPPTs

The GoodWe 4-20kW SDT G2 PLUS+ Series inverter is specially designed for three-phase residential and small commercial projects. The integrated features of high efficiency allow for optimized power generation during the inverter's service cycle. With its lightweight and easy-to-install design, the SDT G2 inverter offers comfort and great convenience for operators and installers. Users can also take all-around smart control of energy management utilizing the featuring 24-hour load consumption monitoring enabled by GoodWe HK3000**1. Meet the perfect choice of maximum energy yield for residential and small-scale commercial usage.

Smart Control & Monitoring

- Smart Shadow Scan with adjustable scan interval**1
- Multi-protocol compatibility for smart home integration

High Generation to Cut Bills

- Up to 200% DC input oversizing & 110% AC output overloading
- Up to 16 A max. DC input current per string

Superb Safety & Reliability

- Optional AFCI**2
- Optional exchangeable DC Type II SPD & SPD failure alarm**2

Friendly & Thoughtful Design

- Fanless design for quiet operations**3
- Elegant and compact design

**1: For SDT G2 Plus+ 8-20kW only.
**2: Optional functions or devices are purchased separately.
**3: For SDT G2 Plus+ 4-10kW only.

SDT G2 PLUS+ Series

GOODWE

Technical Data	GW10K-SDT-20	GW12K-SDT-20	GW15K-SDT-20	GW20K-SDT-20
Input				
Max.Input Voltage (V)	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	140 ~ 950	140 ~ 950	140 ~ 950	140 ~ 950
Start-up Voltage (V)	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620
Max. Input Current per MPPT (A)	15	30	30	30
Max. Short Circuit Current per MPPT (A)	18.7	37.5	37.5	37.5
Number of MPP trackers	2	2	2	2
Number of Strings per MPPT	1	2	2	2
Output				
Nominal Output Power (W)	10000	12000	15000	20000
Nominal Output Apparent Power (VA)	10000	12000	15000	20000
Max. AC Active Power (W)*1	11000	13200	16500	22000
Max. AC Apparent Power (VA)*1	11000	13200	16500	22000
Nominal Output Voltage (V)	400, 3L / N / PE	380 / 400 / 415, 3L / N / PE	220 / 127, 3L / N / PE	380 / 400 / 415, 3L / N / PE
Output Voltage Range (V) (according to local standard)	180 ~ 270	180 ~ 270	180 ~ 270	180 ~ 270
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65			
Max. Output Current (A)	16.0	19.1	24.0	32.0
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	98.3%	98.4%	98.4%	98.4%
European Efficiency	97.6%	97.8%	97.8%	97.8%
Protection				
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III (Type II Optional)			
AC Surge Protection	Tpye III	Type III (Type II Optional)		
AFCI	Optional	Optional	Optional	Optional
Emergency Power Off	Optional	Optional	Optional	Optional
Remote Shutdown	Optional	Optional	Optional	Optional
General Data				
Operating Temperature Range (°C)	-30 ~ +60	-30 ~ +60	-30 ~ +60	-30 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)*2	4000	4000	4000	4000
Cooling Method	Natural Convection	Smart Fan Cooling		
Display	LED, LCD (Optional), WLAN + APP			
Communication	WiFi, RS485 or LAN or 4G (Optional)			
Weight (kg)	20.5	23.5	26.0	26.0
Dimension (W × H × D mm)	354 × 433 × 147	415 × 511 × 175	415 × 511 × 198	
Noise Emission (dB)	<25	<50	<50	<50
Topology	Non-isolated			
Self-consumption at Night (W)	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65
DC Connector	MC4 (4 ~ 6mm²)			
AC Connector	Plug and play connector	OT Terminal		

*1: For Chile Max. AC Active Power (W) & Max. Output Apparent Power (VA): GW4000-SDT-20 is 4000, GW5000-SDT-20 is 5000, GW6000-SDT-20 is 6000, GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000, GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000.
*2: For Australia, Max. Operating Altitude (m) is 3000.
*: Please visit GoodWe website for the latest certificates.
*: All pictures shown are for reference only. Actual appearance may vary.

GOODWE

ES Uniq Series

8-12kW I Single Phase I 2 MPPTs Hybrid Inverter (LV)

The ES Uniq Series is a dedicated single-phase hybrid inverter engineered for residential applications, delivering cost-effective energy storage solutions with a capacity ranging from 8 to 12kW. Tailored for households, this inverter is adaptable to both lithium and lead-acid batteries, enabling the creation of comprehensive energy storage systems.
This inverter is designed to work seamlessly with 182mm modules, providing a 200% oversizing capacity. Crucially, it can manage up to a 200% overload, ensuring dependable performance, especially during peak usage. It facilitates the parallel connection of up to 16 inverters for both on-grid and off-grid operations, making it well-suited for expanding energy requirements. Moreover, the ES Uniq inverter facilitates generator management and allows for the storage of energy generated by generators.

COMING SOON

Smart Control & Monitoring

- Smart load control
- Backup with UPS-level switching <10ms

Friendly & Thoughtful Design

- Plug & Play installations
- Elegant and compact design

Superb Safety & Reliability

- Optional AFCI[1]
- IP65 ingress protection
- Optional Type II SPD on the DC side[1]

Flexible & Adaptable Applications

- Max. 16A DC input current per string
- Up to 200% DC input oversizing
- Parallel connection capability for increased output power

1: Optional functions or devices are purchased separately.

ES Uniq Series

GOODWE

Technical Data	GW8000-ES-C10	GW10K-ES-C10	GW12K-ES-C10
Battery Input Data			
Battery Type		Li-Ion / Lead-acid	
Nominal Battery Voltage (V)		48	
Battery Voltage Range (V)		40 ~ 60	
Max. Continuous Charging Current (A)	160	200	240
Max. Continuous Discharging Current (A)*1	160 (176 at 10min)	200 (220 at 10min)	240 (264 at 10min)
Max. Charging Power (W)	8000	10000	12000
Max. Discharging Power (W)	8800	11000	13200
PV String Input Data			
Max. Input Power (W)	16000	20000	24000
Max. Input Voltage (V)		600	
MPPT Operating Voltage Range (V)		60 ~ 550	
Start-up Voltage (V)		58	
Nominal Input Voltage (V)		360	
Max. Input Current per MPPT (A)*4	32 / 16	32 / 32	32 / 32
Max. Short Circuit Current per MPPT (A)	48 / 24	48 / 48	48 / 48
Number of MPP Trackers		2	
Number of Strings per MPPT	2 / 1	2 / 2	2 / 2
AC Output Data (On-grid)			
Nominal Apparent Power Output to Utility Grid (VA)	8000	10000	12000
Max. Apparent Power Output to Utility Grid (VA)	8800	11000	13200
Max. Apparent Power from Utility Grid (VA)	16500	16500	16500
Nominal Output Voltage (V)		220 / 230 / 240	
Output Voltage Range (V)		170 ~ 280	
Nominal AC Grid Frequency (Hz)		50 / 60	
AC Grid Frequency Range (Hz)		45 ~ 55 / 55 ~ 65	
Max. AC Current Output to Utility Grid (A)	40	50	60
Max. AC Current From Utility Grid (A)		75	
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion		<3%	
AC Output Data (Back-up)			
Back-up Nominal Apparent Power (VA)	8000	10000	12000
Max. Output Apparent Power (VA)	8800 (16000 at 10s)	11000 (20000 at 10s)	13200 (24000 at 10s)
Max. Output Current (A)	40	50	60
Nominal Output Voltage (V)		220 / 230 / 240	
Nominal Output Frequency (Hz)		50 / 60	
Output THDv (@Linear Load)		<3%	
AC Data (Generator)			
Nominal Apparent Power from AC generator (VA)	8000	10000	12000
Max. Apparent Power from AC generator (VA)	11000	12000	12000
Nominal Output Voltage (V)		220 / 230 / 240	
Output Voltage Range (V)		170 ~ 280	
Nominal AC generator Frequency (Hz)		50 / 60	
AC generator Frequency Range (Hz)		45 ~ 55 / 55 ~ 65	
Max. AC Current From AC generator (A)	50.0	54.5	54.5
Nominal AC Current From AC generator (A)	36.4 / 34.8 / 33.3	45.5 / 43.5 / 41.7	54.5 / 52.2 / 50.0
Nominal Output Current (A)	36.4 / 34.8 / 33.3	45.5 / 43.5 / 41.7	54.5 / 52.2 / 50.0
Efficiency			
Max. Efficiency		97.6%	
European Efficiency		96.2%	
Max. Battery to AC Efficiency		95.5%	
MPPT Efficiency		99.9%	
Protection			
PV String Current Monitoring		Integrated	
PV Insulation Resistance Detection		Integrated	
Residual Current Monitoring		Integrated	
PV Reverse Polarity Protection		Integrated	
Battery Reverse Polarity Protection*2		Optional	
Anti-islanding Protection		Integrated	
AC Overcurrent Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC Switch		Integrated	
DC Surge Protection*3		Type III (Type II Optional)	
AC Surge Protection		Type III	
AFCI		Optional	
Remote Shutdown		Integrated	
General Data			
Operating Temperature Range (℃)		-35 ~ +60	
Relative Humidity		0 ~ 95%	
Max. Operating Altitude (m)		3000	
Cooling Method		Smart Fan Cooling	
User Interface		LED, WLAN + APP	
Communication with BMS		CAN	
Communication with Meter		RS485	
Communication with Portal		LAN / WiFi	
Weight (kg)		29	
Dimension (W × H × D mm)		560 × 444.5 × 226	
Topology		Non-isolated	
Ingress Protection Rating		IP65	
Mounting Method		Wall Mounted	

*1: The max. transient discharging current is especially based on the off-gird scenario.
*2: This function is only for Brazil market.
*3: SPD Type II is only for Brazil market.
*4: As for mppt with two strings of pv module, the maximum input current of per string is 16A.

*: Please visit GoodWe website for the latest certificates.
*: All pictures shown are for reference only. Actual appearance may vary.
*: As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.

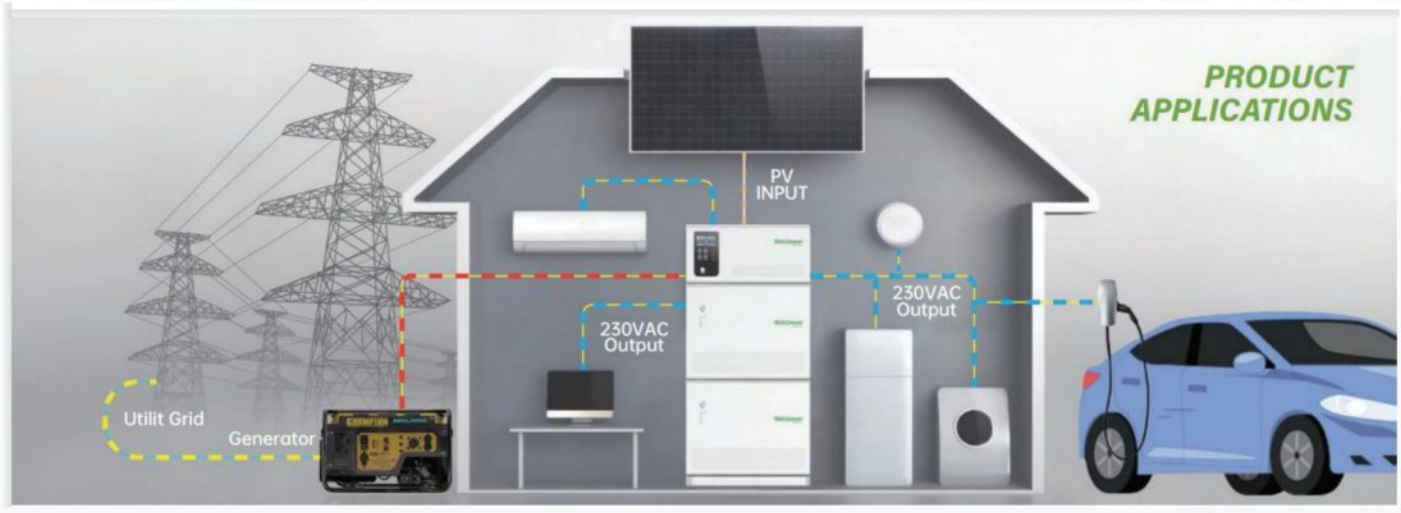
Lithium Battery

48V 100Ah Server Rack

Product Description

1. 6000 times charge and discharge cycle, more than 10 years lifespan.
2. Built-in safty and higher energy density Lithium iron phosphate power battery.
3. Support parallel and series connection.
4. Suitable for home use and RV use.
5. BMS Support multiple protections to prevent the battery cells.

appliation :



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Solar Energy Storage System

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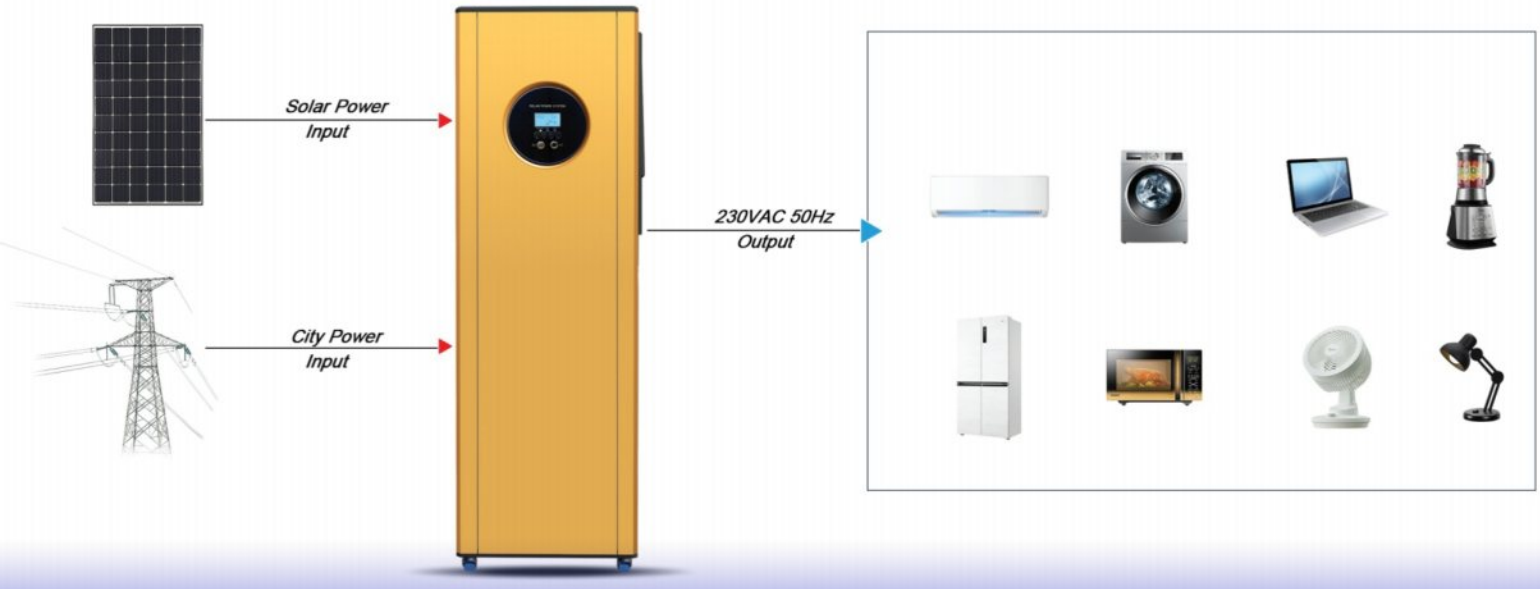
1536 Hours	192 Hours	51.2 Hours	307 Hours	10.4 Hours	19.2 Hours
(10W)	(80W)	(300W)	(50W)	(150W)	(800W)



ALL IN ONE
Solar Energy Storage System

POWERING BUSINESS WORLD WIDE

ALL IN ONE
Solar Energy Storage System

16 kWh / Battery Energy
5.5 KW/ inverter

JD-S300

Model Name	JD-S300
Operating temperature range	-10-55°C
IP Grade	Ip20
AC input Voltage Range	170-280Vac
Frequency	50Hz/60 Hz
Max.AC charging current	80A
PV input	
Max.power	5500W
Max.open voltage	550V
MPPT input voltage range	120-450Vdc
Max.input current	100A
AC Output	
Rated power	5500VA/5500W
Voltage	230Vac±5%
Rated Current	23.9A
PV Output	
Max.Power	5500W
Max.Charging Current	100A
Battery Type	Li-Battery
Voltage Range	40-60Vdc
Rated Voltage	51.2Vdc
Battery Energy	15360WH
Battery Ca Pacity	300Ah
DOD	93%
Weight	≈124KG
Size	1370X422X245mm

ALL IN ONE
Solar Energy Storage System

8.0 kWh / Battery Energy
3.5 KW/ inverter

JD-S200

Model Name	JD-S200
Operating temperature range	-10-55°C
IP Grade	Ip20
AC input Voltage Range	170-280Vac
Frequency	50Hz/60 Hz
Max.AC charging current	80A
PV input	
Max.power	4500W
Max.open voltage	450V
MPPT input voltage range	60-450Vdc
Max.input current	100A
AC Output	
Rated power	3500VA/3500W
Voltage	230Vac±5%
Rated Current	15.2A
PV Output	
Max.Power	4500W
Max.Charging Current	100A
Battery Type	Li-Battery
Voltage Range	20-30Vdc
Rated Voltage	25. 6Vdc
Battery Energy	7680WH
Battery Ca Pacity	300Ah
DOD	93%
Weight	≈69KG
Size	970X422X245mm

ALL IN ONE
Solar Energy Storage System

4.0 kWh / Battery Energy
2.5 KW/ inverter

JD-S150

Model Name	JD-S150
Operating temperature range	-10-55°C
IP Grade	Ip20
AC input Voltage Range	170-280Vac
Frequency	50 Hz/60 Hz
Max.AC charging current	49A
PV input	
Max.power	900W
Max.open voltage	150V
MPPT input voltage range	15-150Vdc
Max.input current	60A
AC Output	
Rated power	2500VA/2500W
Voltage	230Vac±5%
Rated Current	9.1A
PV Output	
Max.Power	900W
Max.Charging Current	60A
Battery Type	Li-Battery
Voltage Range	10-15Vdc
Rated Voltage	12.8Vdc
Battery Energy	3840WH
Battery Ca Pacity	300Ah
DOD	85%
Weight	≈55KG
Size	840X422X245mm

ALL IN ONE
Solar Energy Storage System

POWERING BUSINESS WORLD WIDE

HOME & OFFICES SOLAR ENERGY STORAGE SYSTEM

- Top Brand Solar inverter
  TLithium battery
  Tener

ALL IN ONE
Solar Energy Storage System

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ALL IN ONE
Solar Energy Storage System

16 kWh / Battery Energy
5.5 KW/ inverter

JD-T300

Model Name	JD-T300
Operating temperature range	-10-55°C
IP Grade	Ip20
AC input Voltage Range	170-280Vac
Frequency	50Hz/60 Hz
Max.AC charging current	80A
PV input	
Max.power	5500W
Max.open voltage	550V
MPPT input voltage range	120-450Vdc
Max.input current	100A
AC Output	
Rated power	5500VA/5500W
Voltage	230Vac±5%
Rated Current	23.9A
PV Output	
Max.Power	5500W
Max.Charging Current	100A
Battery Type	Li-Battery
Voltage Range	40-60Vdc
Rated Voltage	51.2Vdc
Battery Energy	15360WH
Battery Ca Pacity	300Ah
DOD	93%
Weight	≈124KG
Size	1360X480X255mm

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Solar Energy Storage System

8.0 kWh / Battery Energy
3.5 KW/ inverter

JD-T200

Model Name	JD-T200
Operating temperature range	-10-55°C
IP Grade	Ip20
AC input Voltage Range	170-280Vac
Frequency	50Hz/60 Hz
Max.AC charging current	80A
PV input	
Max.power	4500W
Max.open voltage	450V
MPPT input voltage range	60-450Vdc
Max.input current	100A
AC Output	
Rated power	3500VA/3500W
Voltage	230Vac±5%
Rated Current	15.2A
PV Output	
Max.Power	4500W
Max.Charging Current	100A
Battery Type	Li-Battery
Voltage Range	20-30Vdc
Rated Voltage	25. 6Vdc
Battery Energy	7680WH
Battery Ca Pacity	300Ah
DOD	93%
Weight	≈69KG
Size	960X480X255mm

ALL IN ONE
Solar Energy Storage System

4.0 kWh / Battery Energy
2.5 KW/ inverter

JD-T150

Model Name	JD-T150
Operating temperature range	-10-55°C
IP Grade	Ip20
AC input Voltage Range	170-280Vac
Frequency	50 Hz/60 Hz
Max.AC charging current	49A
PV input	
Max.power	900W
Max.open voltage	150V
MPPT input voltage range	15-150Vdc
Max.input current	60A
AC Output	
Rated power	2500VA/2500W
Voltage	230Vac±5%
Rated Current	9.1A
PV Output	
Max.Power	900W
Max.Charging Current	60A
Battery Type	Li-Battery
Voltage Range	10-15Vdc
Rated Voltage	12.8Vdc
Battery Energy	3840WH
Battery Ca Pacity	300Ah
DOD	85%
Weight	≈55KG
Size	830X480X255mm

Batteries & Accessories

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