



DONNERGY

Solar Inverters & Digital Energy Storage System Expert





About Donnergy

Shenzhen Donnergy Technology Co., Ltd

SHENZHEN DONNERGY TECHNOLOGY CO., LTD (i.e. **DONNERGY**) is a leading provider of **Solar Inverters** and **Energy Storage Solutions**, Integrating R&D, production, sales and service.

As a professional manufacturer which was honored with National High-tech Enterprise due to the continuous research and development in the field of Solar Energy Conversion and Power Storage, **DONNERGY** has gained core technical advantages in **PCS**, **EMS**, **BMS** and **Cloud System**.

With independent intellectual property rights, **DONNERGY** focuses on **Residential Energy Storage**, **Microinverters** and **Industrial & Commercial Energy Storage Systems**, and has been committed to providing specialized, intelligent and serialized energy storage products and energy management systems.

Continuous R&D innovation and strict quality control is the cornerstone of **DONNERGY**. With a dedicated team of over 60 engineers, **DONNERGY** has developed a wide range of products and obtained dozens of patents. Most of products are certified with EN50549-1, IEC 62109-1&-2, IEC 61000-6-1&-3, VDE4105, CEI 0-21, G98&G99, NTs, UTE C15-712-120107, RD1663/2000 by TUV, SGS or ITS.

DONNERGY pledges to supply top quality products and service to our partners worldwide, including agents, distributors, OEM or ODM customers and business partners, aiming to work together to turn the planet a better place for life with solar energy.



R&D



Production



Sales



Service



System Integration



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Founding Team



Founder / President / General Manager

Guohui Peng

Former Founder of a Top 5 PV Inverter Enterprise in China, former Senior Manager of a Fortune Global 500 company from Germany



Co-founder / Executive Deputy General Manager

David Peng

Master of Peking University, former Senior Manager of a Fortune Global 500 company from Germany



Co-founder / R&D Director / Principal Algorithm Engineer

H. Zhou

14 years in PV Inverter R&D and Management Experience



Co-founder / Chief Hardware Engineer

S. H. Huang

8 years in doing PV Inverter Hardware Design



Corporate Culture

Vision

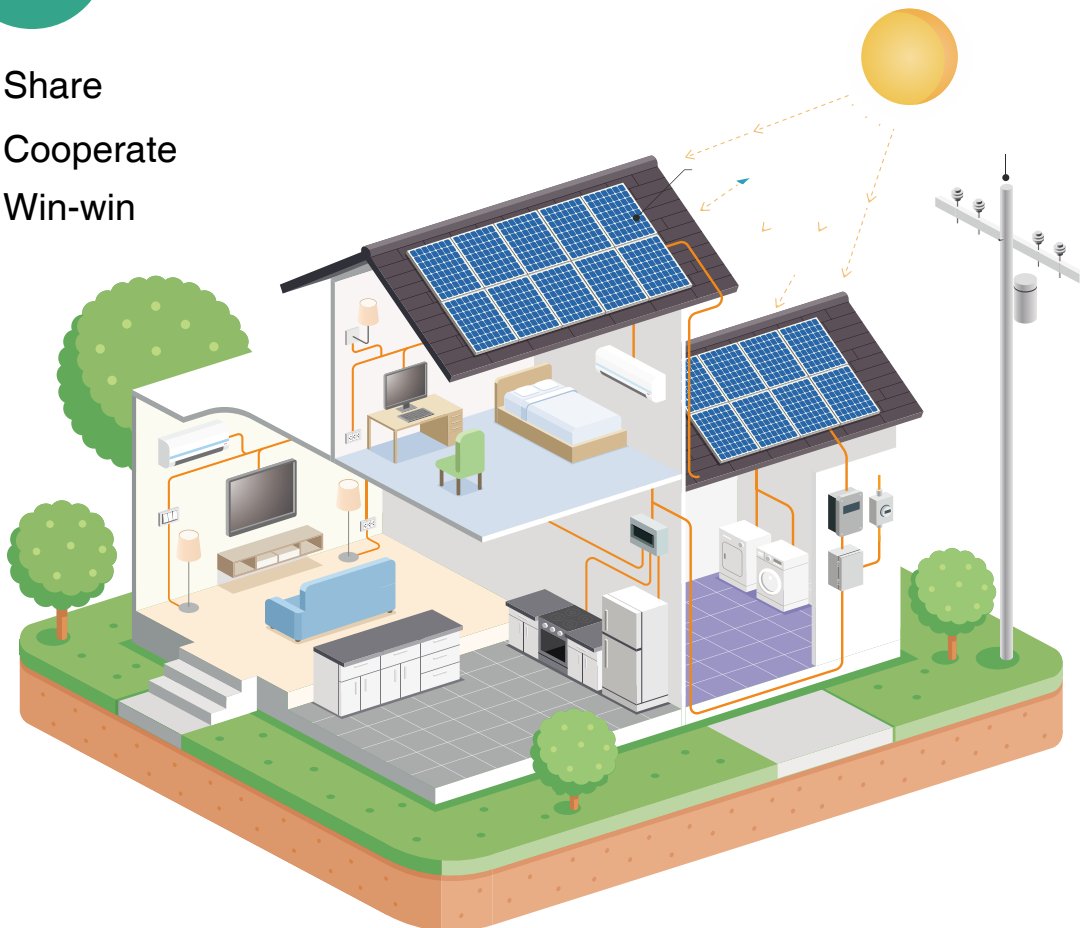
Draw a better world with **N**ew Energy

Mission

Turn the planet a better place for living with solar energy

Core Values

Share
Cooperate
Win-win





Facilities



R&D and Operation Center
in Shenzhen



150,000+ Square Feet Plant
in Huizhou



SGS Certified Laboratory



Assembly Workshop



Facilities



Dustproof Workshop



Trial production prior to mass production



Aging Room



Warehouse



Technical Support Center



Our Advantages



- **Strictly follow Quality Control protocols in accordance with the industrial standards, ISO 9001 and ISO 14001 to produce High Efficiency and highly cost-effective products.**
- **Strong Hardware and Software Development Capability.**
 - 60+ DSP Software Engineers, ARM Software Engineers, Circuit Design Engineers, Electronic Parts and Components Engineers, Mechanical Design Engineers, Industrial Design Engineers, EMS Engineers, BMS Engineers, Digital Energy Engineers, Product Safety and Regulatory Engineers, Compliance Engineers, Electrical Engineers;
 - 10+ Java Engineers, Database Engineers, Web Engineers, Android App Engineers, IOS App Engineers, UI Designers and UX Designers;
 - Dozens of patents and Intellectual Property Rights.
- Brands:



GT400TL / GT600TL / GT800TL Microinverter

Specifications



Features



Low photovoltaic input voltage, high and low voltage isolated, safe to use.



Built-in MPPT, DSP control, DC to AC peak efficiency up to 94.20%.



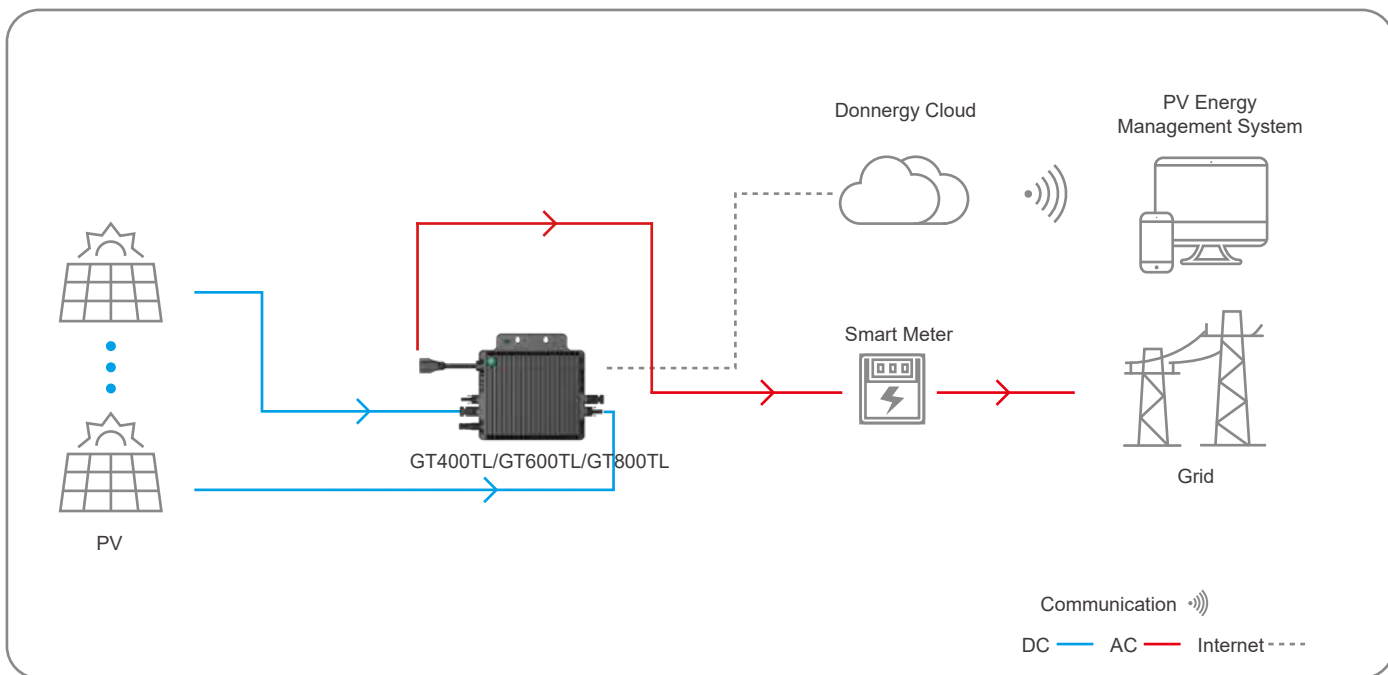
Small and light-weighted, easy to install, IP67 class protection.



WIFI Remote monitoring.



Support combined grid connection up to 6 units for model number GT800TL



GT400TL/GT600TL/GT800TL | Specifications

| Model | GT400TL | GT600TL | GT800TL |
|---|--|--------------------|--------------------|
| PV Input (DC) | | | |
| PV Max Input Power (W) | 250 x2 | 350 x2 | 450 x2 |
| PV Max Input Voltage (V) | 60 | 60 | 60 |
| Start-up Voltage (V) | 30 | 30 | 30 |
| MPPT Voltage Range (V) | 25 ~ 55 | 25 ~ 55 | 25 ~ 55 |
| Full Load MPPT Voltage Range (V) | 33 ~ 55 | 33 ~ 55 | 33 ~ 55 |
| Operating Voltage Range (V) | 16~60 | 16~60 | 16~60 |
| Max Input Current (A) | 7A x2 | 12A x2 | 14A x2 |
| Maximum input short-circuit current (A) | 15A x2 | 20A x2 | 25A x2 |
| Number of MPP Trackers | 2 | 2 | 2 |
| AC Output | | | |
| Rated Output Power (W) | 400 | 600 | 800 |
| Nominal Output Current (A) | 1.74 | 2.6 | 3.48 |
| Maximum Output Power (VA) | 400 | 600 | 800 |
| Nominal Grid Voltage (V) | 230 (single-phase) | 230 (single-phase) | 230 (single-phase) |
| Grid Voltage Range (V) | 184 ~ 264VAC | 184 ~ 264VAC | 194 ~ 264VAC |
| Nominal Grid Frequency (Hz) | 50Hz / 60Hz | 50Hz / 60Hz | 50Hz / 60Hz |
| Max. Total Harmonic Distortion | <3%(rated power) | <3%(rated power) | <3%(rated power) |
| Power Factor | >0.99 | >0.99 | >0.99 |
| Max Parallel | 8pcs | 8pcs | 6pcs |
| Anti-islanding Protection | Yes | Yes | Yes |
| AC Short Circuit Protection | Yes | Yes | Yes |
| System | | | |
| Max. Efficiency | 94.2% | 94.2% | 94.2% |
| Protection Class | CLASS I | CLASS I | CLASS I |
| Protection Level | IP67 | IP67 | IP67 |
| Cooling Method | Natural Cooling | Natural Cooling | Natural Cooling |
| Monitoring | WIFI | WIFI | WIFI |
| Operating Temperature Range (°C) | -40 ~ +65 | -40 ~ +65 | -40 ~ +65 |
| Manufacturer's Warranty | 10 Years | 10 Years | 10 Years |
| Mechanical Data | | | |
| Dimensions (W ×H × Dmm) | 225 x 225 x 37 | 225 x 225 x 37 | 225 x 225 x 37 |
| Weight (kg) | 3.25 | 3.25 | 3.25 |
| Product Certification | | | |
| Test standards | IEC 62321-3-1:2013; IEC 62321-4:2013+A1:2017; IEC 62321-5:2013 IEC 62321-6:2015; IEC 62321-7-1:2015; IEC 62321-7-2:2017 IEC 62321-8:2017 | | |
| | ENIEC 61000-6-3:2021; ENIEC 61000-6-1:2019 ENIEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A2:2021 | | |
| | EN 62109-1:2010; EN 62109-2:2011 VDE-AR-N 4105:2018; conjunction with DIN VDE V 0124- 100:2020 | | |

DNBS2500H

Balcony Solar Station

Specifications



Easy plug-and-play installation, compatible with 99% of the market solar panels and microinverters.



Support microinverter parallelism, Expand capacity and support greater output power.



Noiseless design, IP65 waterproof, high temperature resistant fireproof material, Meet the conditions of all-weather use of the balcony.



Lithium iron phosphate battery, 7 layers of safety protection, 6000+ cycles.



Integrated MPPT, BMS power management technology, support battery 2240Wh-6720Wh capacity expansion.



Real-time monitoring of intelligent APP, convenient for multi-scenario application switching.

| Model | DNBS2500H | DNPA2500H(EXTRA BATTERY) |
|---------------------------|------------------------------------|------------------------------------|
| GENERAL | | |
| Cell Chemistry | LifePO4 | LifePO4 |
| Capacity | 2240Wh | 2240Wh |
| Nominal Current | 50A | 50A |
| Lifecycle | 6000+ Cycles to 80% Capacity | 6000+ Cycles to 80% Capacity |
| Storage Temp | -10°C~45°C | -20°C~60°C |
| Operating Temp | -10°C~40°C | 0°C~50°C |
| Material | ABS + PC/Metal | ABS + PC/Metal |
| Weight | 20±0.5kg | 18±0.5kg |
| Dimensions | 350*295*175mm | 350*295* 175mm |
| Battery Management System | OVP, UVP, OCP, SCP, OTP, UTP, etc. | OVP, UVP, OCP, SCP, OTP, UTP, etc. |
| Wireless | BT5.2 + WIFI 2.4G | / |

| GENERAL | DNBS2500H | DNPA2500H(EXTRA BATTERY) |
|-----------------------|------------|--------------------------|
| MC4*2 PV INPUT | | |
| Power | 500W*2 Max | / |
| Voltage Range | 12V~59V | / |
| Max. Input Current | 10A | / |
| MC4*2 OUTPUT | | |
| Power | 400W*2 Max | / |
| Voltage Range | 42V~50.4V | / |
| Max. Output Current | 11.9A | / |
| INPUT | | |
| Battery Voltage Range | 44.8V | 44.8V |
| Charge Voltage | 52.5V | 52.5V |
| Charge Current | 50A | 50A |
| OUTPUT | | |
| Discharge Current | 100A | 100A |
| DoD | 90% | 90% |







GH-8KS48P3 / GH-10KS48P3 / GH-12KS48P3

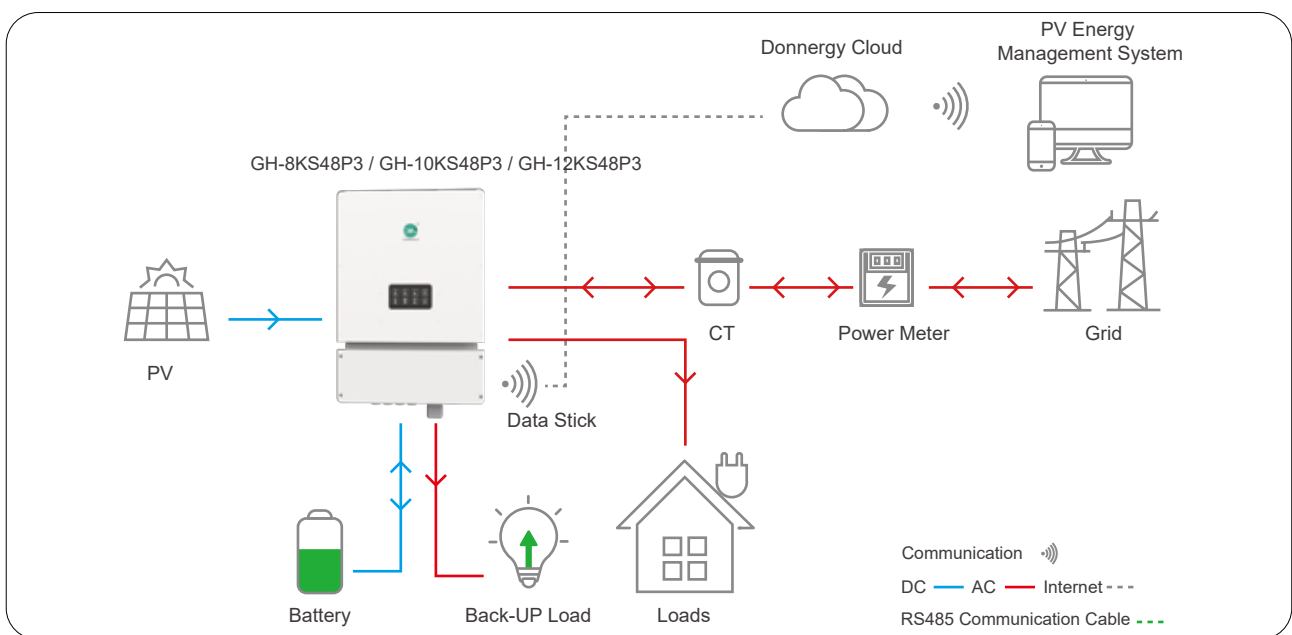
On-grid/Off-grid Hybrid Energy Storage PV Inverter

Specifications



Features

-  IP65 protection rating
-  Supports up to 6 units in parallel
-  Supports on/off-grid mode switching for EPS output
-  Supports battery charging/discharging according to the time setting
-  Independent AC input port for a diesel generator
-  Support storing energy from diesel generator



GH-8KS48P3 / GH-10KS48P3 / GH-12KS48P3 | Specifications

| Model | GH-8KS48P3 | GH-10KS48P3 | GH-12KS48P3 |
|---------------------------------------|-------------------------------|----------------------|----------------------|
| Battery Input Data | | | |
| Battery Type | Lithium or lead acid | Lithium or lead acid | Lithium or lead acid |
| Rated battery voltage | 48V | 48V | 48V |
| Maximum charging voltage | ≤60V (Configurable) | ≤60V (Configurable) | ≤60V (Configurable) |
| PV Input Data | | | |
| Maximum DC input voltage | 1000V | 1000V | 1000V |
| MPPT Operating voltage range | 150~800V | 150~800V | 150~800V |
| Starting voltage | 150V | 150V | 150V |
| Maximum input current | 18A/18A | 36A/18A | 36A/18A |
| MPPT number | 2 | 2 | 2 |
| AC Output Parameters (On-Grid) | | | |
| Phase | 3 | 3 | 3 |
| Maximum output apparent power | 8800VA | 11000VA | 13200VA |
| Rated output voltage | 400V | 400V | 400V |
| Rated output frequency | 50/60HZ | 50/60HZ | 50/60HZ |
| Max output current | 18A | 23A | 27A |
| Output power factor | ~1(-0.8 leading~+0.8 lagging) | | |
| AC Output Data (Back-up) | | | |
| Rated output apparent power | 8000VA | 10000VA | 12000VA |
| Maximum output apparent power | 16000VA,15sec | 20000VA,15sec | 24000VA,15sec |
| Rated output voltage | 400V(+2%) | 400V(+2%) | 400V(+2%) |
| Rated output frequency | 50/60HZ(+0.2%) | 50/60HZ(+0.2%) | 50/60HZ(+0.2%) |
| Max output current | 18A | 23A | 27A |
| Efficiency | | | |
| Max. Efficiency(PV) | 98% | 98% | 98% |
| Max. Efficiency(Battery) | 94.5% | 94.5% | 94.5% |
| Europe efficiency | 97% | 97% | 97% |
| Basic Data | | | |
| Operation temperature | -25°C~60°C | -25°C~60°C | -25°C~60°C |
| Storage temperature | -30°C~65°C | -30°C~65°C | -30°C~65°C |
| Relative humidity | 0~95% | 0~95% | 0~95% |
| Working altitude | ≤4000m | ≤4000m | ≤4000m |
| Cooling | Air Cooling | Air Cooling | Air Cooling |
| Noise | <25db | <25db | <25db |
| Weight | 35Kg | 35Kg | 35Kg |
| Size (width x height x depth) | 475x683x256(mm) | 475x683x256(mm) | 475x683x256(mm) |
| Protection class | IP65 | IP65 | IP65 |
| Topology | HF isolation(Battery Side) | | |

GH3600TL/GH4600TL/GH5000TL

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

Specifications

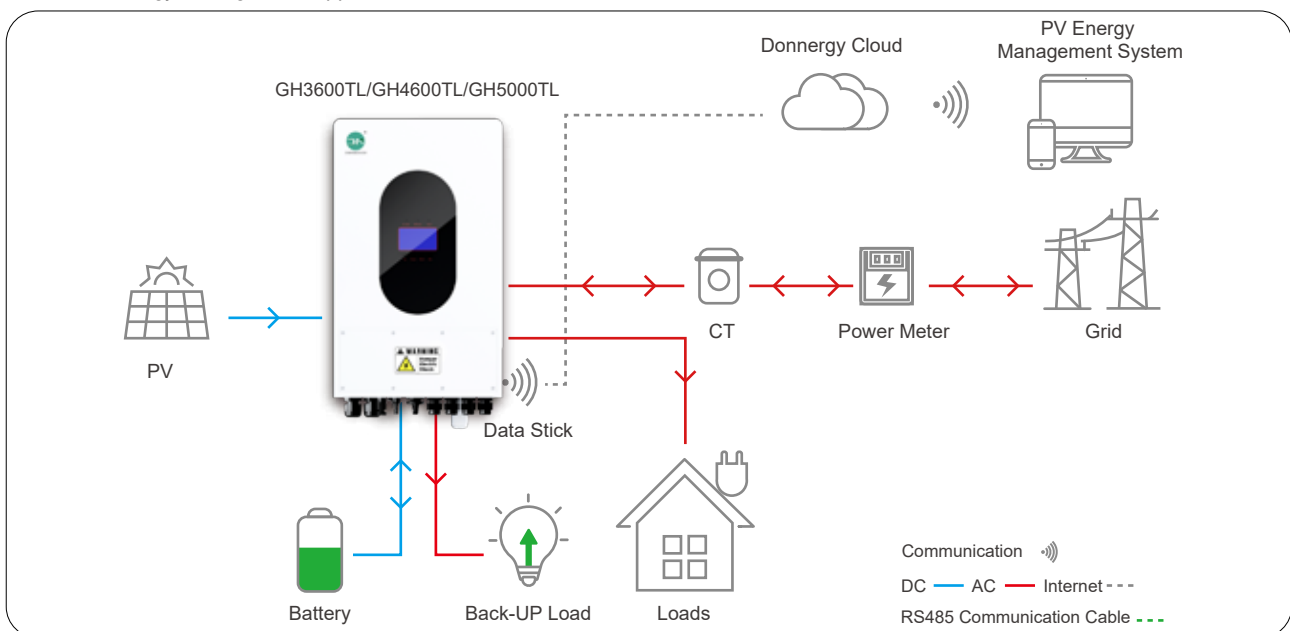


Features

- Multiple operating modes, on-grid, off-grid and UPS, MPPT charger built in.
- Controlled by built-in DSP and adopt advanced SPWM technology.
- Integrated smart APP, can remotely diagnose and update.
- Droop control, Max 6pcs in parallel.
- Suitable for customizing various PV Energy Storage System.
- 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 generated by the PV array or from the Utility Grid can be stored in a battery or to be used to power your loads.
- Power generated by the PV array 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 App for data collection and remote control.



| Model | GH3600TL | GH4600TL | GH5000TL |
|---|--|---------------------|--------------------|
| Battery Data | | | |
| Battery Type | Lithium / Lead-Acid | Lithium / Lead-Acid | Li-Ion / Lead-Acid |
| Nominal Battery Voltage (V) | 51.2 | 51.2 | 51.2 |
| Battery Voltage Range (V) | 41.6 ~ 58.5 | 41.6 ~ 58.5 | 41.6 ~ 58.5 |
| Max. Continuous Charging Current (A) | 80 | 95 | 95 |
| Max. Continuous Discharging Current (A) | 85 | 100 | 100 |
| Max. Charge Power (W) | 3600 | 4600 | 5000 |
| Max. Discharge Power (W) | 3600 | 4600 | 5000 |
| PV String Input Data | | | |
| Max. Input Power (W) | 5200 | 6600 | 7000 |
| Max. Input Voltage (V) | 500 | 500 | 500 |
| MPPT Operating Voltage Range (V) | 120 - 430 | 120 - 430 | 120 - 430 |
| Start-up Voltage (V) | 150 | 150 | 150 |
| Nominal Input Voltage (V) | 360 | 360 | 360 |
| Max. Input Current per MPPT (A) | 15 | 15 | 15 |
| Max. Short Circuit Current per MPPT (A) | 18.9 | 18.9 | 18.9 |
| Number of MPP Trackers | 2 | 2 | 2 |
| Number of Strings per MPPT | 1 | 1 | 1 |
| AC Output Data (On-grid) | | | |
| Rated Power Output to Utility Grid (W) | 3600 | 4600 | 5000 |
| Max. Apparent Power Output to Utility Grid (VA) | 3960 | 5000 | 5500 |
| Max. Apparent Power from Utility Grid (VA) | 3960 | 5000 | 5500 |
| Nominal Output Voltage (V) | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Nominal AC Grid Frequency (Hz) | 50Hz / 60Hz | 50Hz / 60Hz | 50Hz / 60Hz |
| Max. AC Current Output to Utility Grid (A) | 17.2 | 20.0 | 23.9 |
| Max. AC Current From Utility Grid (A) | 17.2 | 22.0 | 23.9 |
| Max. Total Harmonic Distortion | <3% | <3% | <3% |
| Power Factor (cos ϕ) | ~0.99 (Adjustable from 0.8 leading to 0.8 lagging) | | |
| Switch Time | <10 ms | <10 ms | <10 ms |
| AC Output Data (Back-up) | | | |
| Back-up Rated Power (W) | 3600 | 4500 | 4500 |
| Max. Output Apparent Power (VA) | 3600 | 4500 | 4500 |
| Max. Output Current (A) | 15.6 | 20 | 20 |
| Nominal Output Voltage (V) | 220 / 230 / 240 | 220 / 230 / 240 | 220 / 230 / 240 |
| Nominal Output Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 |
| Output THDv (@Linear Load) | <3% | <3% | <3% |
| Conversion Efficiency | | | |
| Max. Efficiency | 97.8% | 97.8% | 97.8% |
| EU Efficiency | 97% | 97% | 97% |
| Max. Battery to AC Efficiency | 95% | 95% | 95% |
| MPPT Efficiency | 99.9% | 99.9% | 99.9% |
| Protection | | | |
| Residual Current Monitoring | Integrated | Integrated | Integrated |
| Anti-islanding Protection | Integrated | Integrated | Integrated |
| Remote Shutdown | Integrated | Integrated | Integrated |
| Protection Level | IP65 | IP65 | IP65 |
| Environmental / Ambient Conditions | | | |
| Operating Temperature Range (°C) | -25 ~ +60 | -25 ~ +60 | -25 ~ +60 |
| Relative Humidity | 0 to 95 % , non-condensing | | |
| Installation Altitude above Sea Level | up to 2000 m above sea level | | |
| Cooling Method | Natural Cooling | Natural Cooling | Natural Cooling |
| Monitoring Settings | Integrated data logger | | |
| Other Data | | | |
| Dimensions (W × H × D mm) | 350 x 580 x 230 | 350 x 580 x 230 | 350 x 580 x 230 |
| Weight (kg) | 25±0.5 | 25±0.5 | 25±0.5 |
| Installation Type | Wall Installation with Wall Bracket | | |
| Communication | CAN / RS485 / WiFi | CAN / RS485 / WiFi | CAN / RS485 / WiFi |
| Manufacturer's Warranty | 5 Years | 5 Years | 5 Years |

| Model | GH3600TL | GH4600TL | GH5000TL |
|------------------------------|---|----------|----------|
| Product certification | VDE 0126-1-1: 2013 + VFR: 2019 VDE-AR-N 4105: 2018-11 + Correction 1:2020-1 EN IEC 61000-6-1: 2019 EN IEC 61000-6-3: 2021 EN 62109-1:2010 EN 62109-2:2011 EN 50549-1: 2019(1) IEC 62321-3-1:2013 IEC 62321-4:2013+A1:2017 IEC 62321-5: 2013 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-6:2015 IEC 62321-8:2017 IEC 62116 ENA Engineering Recommendation G98 Issue 1 Amendment 6 September 2021 ENA Engineering Recommendation G99 Issue 1 Amendment 8, 01 September 2021 RD 647/2020 RD 413/2014 RD 1699/2011 UTE C15-712-1 (JULET 2013) DOC-030221-GAP (EC) No. 1907/2006 UNE-EN SO/IEC 17065 DIN VDEV 0124-100(VDE V0124-10):2020-06 CEI-021:2019 CEI 0-21:2022-03+V1:2022-11 NRS-097 EMC(IEC61000-2-2&CISPR11) | | |
| Test Standards | | | |

GH6000TL

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

Specifications



Features



Multiple operating modes, on-grid, off-grid and UPS, MPPT charger built-in.



IP65 protection rating



Integrated smart APP, can remotely diagnose and update.



Droop control, Max 6pcs in parallel.



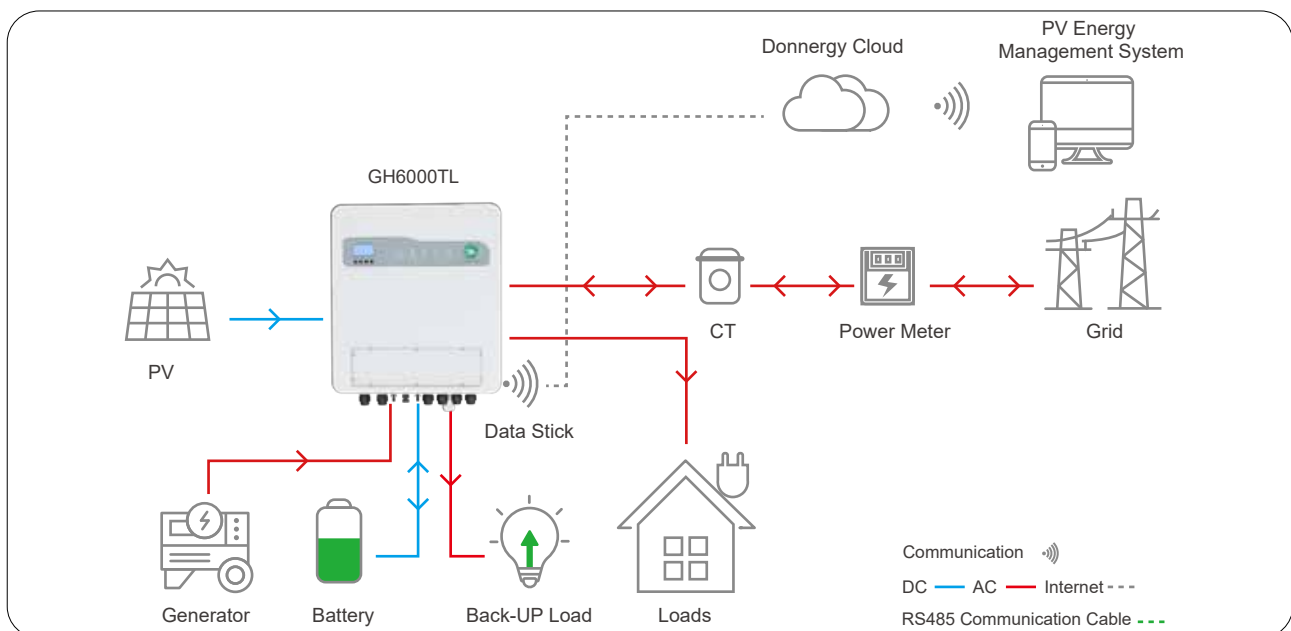
Five-years warranty



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 generated by the PV array or a diesel generator or from the Utility Grid can be stored in a battery or to be used to power your loads.
- Power generated by the PV array 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, and support dual AC output to the load.
- Support a variety of load types, such as resistive, inductive and capacitive loads, including two-phase unbalanced loads and half-wave rectified loads.



| Model | GH6000TL |
|---|--|
| PV Input (DC) | |
| Maximum Input Power | 6600w |
| Maximum Input Voltage | 500V |
| Starting Voltage | 150V |
| PV Input Voltage Range | 370V (100V~500V) |
| MPPT Voltage Range | 120V~450V |
| MPPT Quantity | 2 |
| Maximum Input Current | 18A/18A |
| Output/Input (AC) | |
| Rated Output Power | 6000W |
| Maximum Output Apparent power | 6600W |
| Rated Output Current | 26.1A |
| Maximum Output Current | 28.7A |
| Grid Voltage Type | 230VAC (single phase) |
| Rated Grid Frequency | 50Hz/60Hz (optional) |
| Total Current Waveform Distortion Rate | <3% (rated power) |
| Power Factor Range | >0.99 @ full power (Adjustable range 0.8 lead ~ 0.8 hysteresis) |
| Off-Grid Output | |
| Maximum Output Power | 6000W |
| Rated Output Voltage | 230VAC (single phase) |
| Rated Output Frequency | 50Hz/60Hz (optional) |
| Switching Time | ≤10ms |
| Total Harmonic Distortion (Linear Load) | THD<3% (Linear load<1.5%) |
| Overload capacity | 2 times of rated power, 10 S |
| Battery | |
| Battery Voltage Range | 40~60V |
| Maximum Battery Charge Current | 100A |
| Maximum Battery Discharge Current | 150A |
| Battery Type | Lead-acid or Lithium-ion |
| Communication Interface | RS485; CAN |
| Efficiency | |
| Maximum Efficiency | 98% |
| European Efficiency | 97% |
| MPPT Efficiency | 99.9% |
| Inverter Efficiency | 94.8% |
| System | |
| Protection Level | IP65 |
| Ambient Temperature | -25~60°C, >45°C Derating |
| Ambient Humidity | 0-95% No condensation |
| Cooling Method | Smart cooling |
| Altitude | ≤2000m |
| Display | LCD |
| Communication | RS485/USB/CAN/Wifi(GPRS optional) |
| Warranty | 5 years (standard) |
| Other Data | |
| Installation | Wall-mounted |

OH3000TL/OH5000TL

Off-grid Hybrid Energy Storage PV Inverter

Specifications



Features



Multiple operating modes, off-grid and UPS, MPPT charger built-in.



Compatible with almost all 48V LiFePO4 battery pack.



Integrated smart APP, can remotely diagnose and update.



Max. 6pcs in parallel (Only OH5000TL).



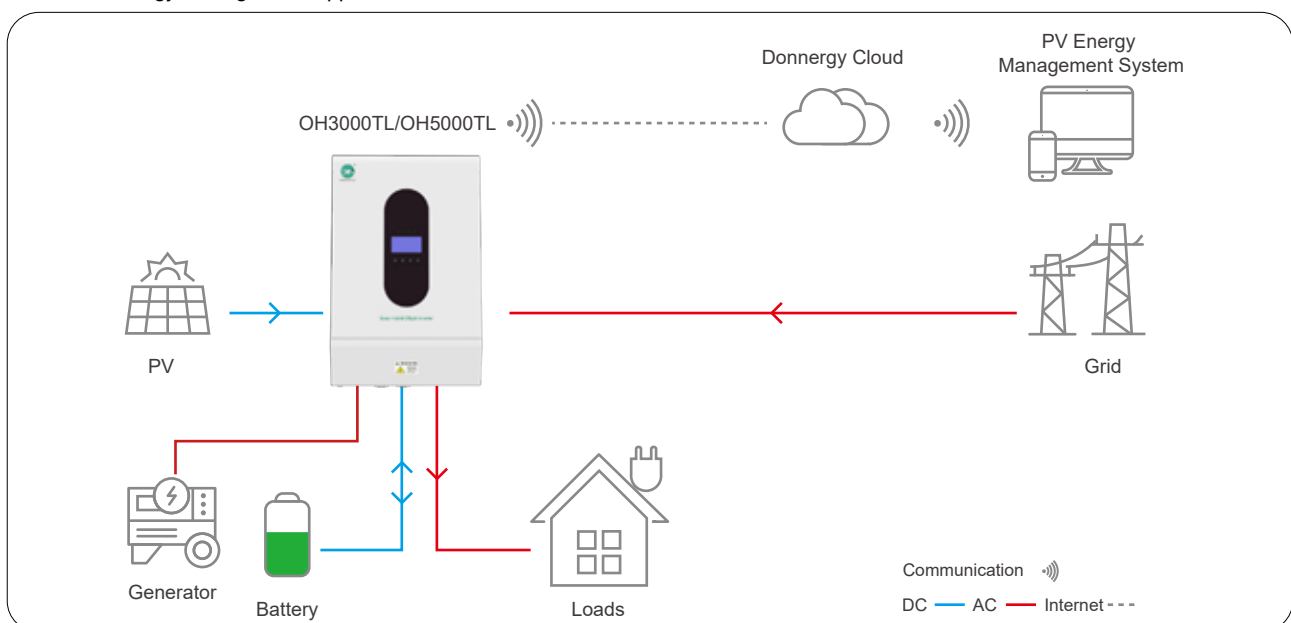
Suitable for customizing various PV Energy Storage System.



Automatic activation of LiFePO4 battery pack.

This Off-grid Hybrid PV Inverter has both Off-grid and Energy Storage Function:

- Power generated by the PV array or a diesel generator or from the Utility Grid can be stored in a battery or to be used to power your loads.
- Power generated by the PV or stored inside the battery can be used to power your loads.
- Featured with UPS function, you can set the priority of the power supply, PV first, Utility Grid first or PV&Battery combined first per to your own power consumption demand.
- Cloud energy management App for data collection and remote control.



OH3000TL/OH5000TL | Specifications

| Model | OH3000TL | OH3000TL-HP | OH5000TL |
|---|---|---------------------------|---------------------------|
| Battery Data | | | |
| Battery Type | Lead-Acid | Lithium / Lead-Acid | Lithium / Lead-Acid |
| Nominal Battery Voltage (V) | 24 | 24 | 48 |
| Max. Continuous Charging Current (A) | 120 | 120 | 80 |
| Max. Charge Power (W) | 3200 | 3200 | 4500 |
| Max. Discharge Power (W) | 3000 | 3000 | 5000 |
| PV String Input Data | | | |
| Max. Input Power (W) | 2000 | 4000 | 6000 |
| Max. Input Voltage (V) | 145 | 500 | 500 |
| MPPT Operating Voltage Range (V) | 30-115 | 120-430 | 120-430 |
| Start-up Voltage (V) | 30 | 150 | 150 |
| Nominal Input Voltage (V) | 100 | 300 | 300 |
| Number of MPP Trackers | 1 | 1 | 1 |
| Number of Strings per MPPT | 1 | 1 | 1 |
| AC Output Data | | | |
| Rated Power (W) | 3000 | 3000 | 5000 |
| Nominal Output Current (A) | 13.6 | 13.6 | 21.7 |
| Nominal Output Voltage (V) | 208 / 220 / 230 / 240 VAC | 208 / 220 / 230 / 240 VAC | 208 / 220 / 230 / 240 VAC |
| Nominal Output Frequency (Hz) | 50Hz / 60Hz | 50Hz / 60Hz | 50Hz / 60Hz |
| Output THDv | ≤3% (Linear Load), ≤5% (Non-linear Load PF=0.7) | | |
| Conversion Efficiency | | | |
| Max. Efficiency | 93.5% | 93.5% | 93.6% |
| MPPT Efficiency | 99.9% | 99.9% | 99.9% |
| Protection | | | |
| AC Overcurrent Protection | Integrated | Integrated | Integrated |
| AC Short Circuit Protection | Integrated | Integrated | Integrated |
| AC Overvoltage Protection | Integrated | Integrated | Integrated |
| Remote Shutdown | Integrated | Integrated | Integrated |
| Environmental / Ambient Conditions | | | |
| Operating Temperature Range (°C) | 0 ~ +50 | 0 ~ +50 | 0 ~ +50 |
| Excess Temperature Behaviour | continuous power reduction (derating) | | |
| Relative Humidity | 0 to 95 % (climate class 4k6), non-condensing | | |
| Installation Altitude above Sea Level | up to 2000m above sea level | | |
| Installation Location | Inside | Inside | Inside |
| Cooling Method | Air Cooling | Air Cooling | Air Cooling |
| Mechanical Data | | | |
| Dimensions (W × H × D mm) | 300 x 485 x 120 | 300 x 485 x 120 | 300 x 485 x 120 |
| Weight (kg) | 8.8±0.5 | 8.8±0.5 | 9.5±0.5 |
| Protection Level | IP20 | IP20 | IP20 |
| Installation Type | Wall Installation with Wall Bracket | | |
| Communications | | | |
| Display | LCD, WLAN + APP | LCD, WLAN + APP | LCD, WLAN + APP |
| Monitoring Settings | Integrated data logger | Integrated data logger | Integrated data logger |
| Communication with BMS | CAN | CAN | CAN |
| Communication with Portal | Wifi | Wifi | Wifi |
| Other Data | | | |
| Topology | Transformerless | Transformerless | Transformerless |
| Reliability | Integrated | Integrated | Integrated |
| Manufacturer's Warranty | 2 Years | 2 Years | 2 Years |
| Product Certification | | | |
| Test Standards | EN IEC 61000-6-3:2021 EN IEC 61000-6-1:2019 EN 62920:2017+A1:2021 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 | | |

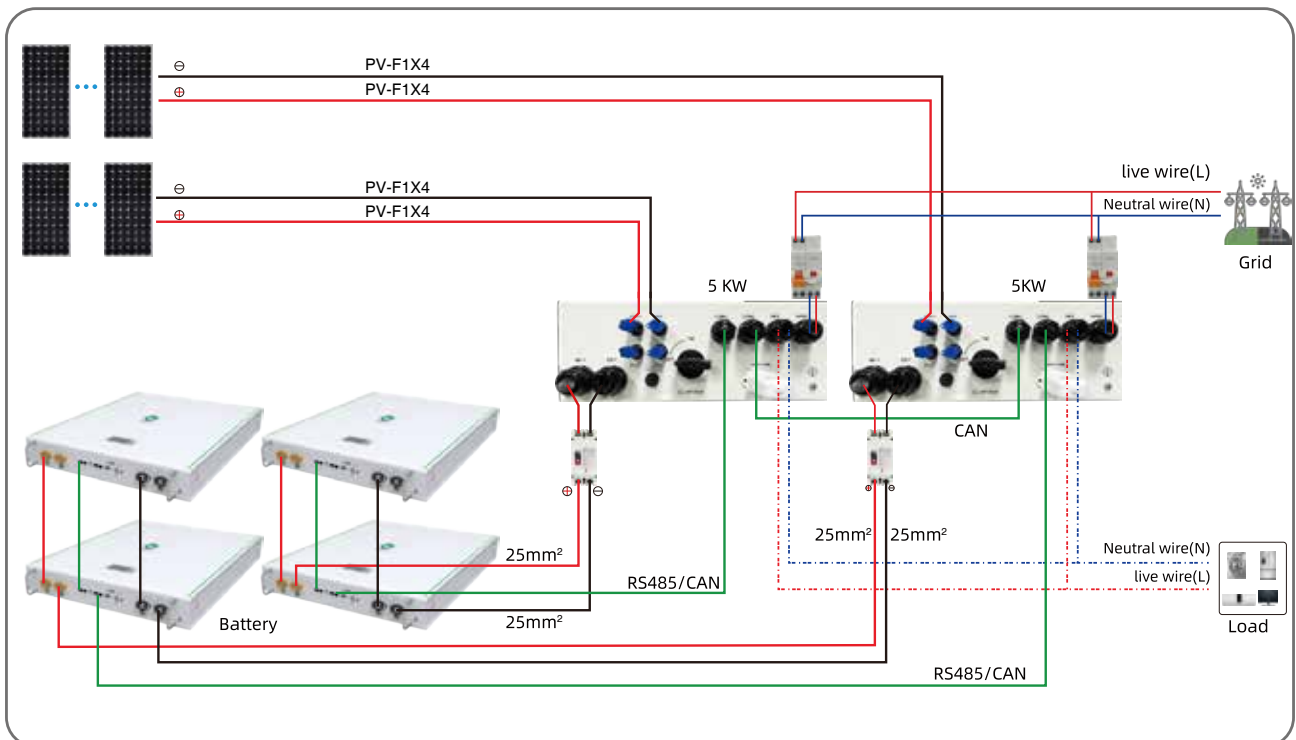
LFBAT 51100-EU-W

Wall Mounted Battery

Specifications



- A** Built-in Grade A LiFePO4 battery cell, highly reliable and durable.
- 90 mm** 90MM ultra-thin wall mounted design, perfectly fit for your beautiful home.
- BMS** All datas and settings from battery is under control and easy to manage the storage system.
- ✓** Built-in fuse in each battery cell, making it super safe and reliable.
- LCD** LCD display can support different setting and is easy to use.
- ⋯** Pre-heating function optional



LFBAT 51100-EU-W | Specifications

| Model | LFBAT 51100-EU-W | Remarks |
|--|---|--|
| Nominal energy | 5120Wh | Standard charging and discharging test |
| Series parallel connection mode | 16S1P | |
| Nominal capacity | 100Ah | Standard charging and discharging test |
| Nominal voltage | 51.2V | |
| Operating voltage range | 40 ~ 58.4V | Temperature range: -20 ~ 65 °C |
| Operating temperature (Charging) | 0 ~ 65 °C | |
| Operating temperature (Discharging) | -20 ~ 65 °C | |
| Standard charging | Constant current charging: 50A Charging voltage: 58.4V Cut off current: 5A | Maximum unit voltage 3.65V |
| Maximum continuous charging current | Constant current charging: 100A Charging voltage: 58.4V Cut off current: 5A | Maximum unit voltage 3.65V |
| Standard discharging | Constant current discharging 50A Cut off voltage: 40V | Minimum unit voltage 2.5V |
| Maximum continuous discharging current | Constant current discharging: 100A Cut off voltage: 40.0V | Minimum unit voltage 2.5V |
| Standard power | 2560 watt | |
| Storage temperature | -20~65 | Humidity ≤95%ROH, no condensation. |
| Cycle life | The capacity decays to 80Ah Number of cycles ≥ 6000 | 80% DOD, @ 25±2 °C, standard charging and discharging mode ±2 °C |
| Monthly self discharging | ≤2.5%/month | After 3 months' shipment, the battery will be charged to 40%SOC and stored at @ 25 |
| Monitoring communication | CAN/RS485/RS232 | |
| Balanced approach | Passive equalization | |
| Shipping capacity | SOC 30 ~ 70% (TBD) | SOC 30 ~ 70% (TBD) |
| Weight (kg) | 48.3 | |
| Dimensions (W × H × Dmm) | 540 x 670 x 90 | |
| Protection Level | IP20 | |
| Certificate | EN IEC 61000-6-1:2019 EN IEC 61000-6-3:2021 | |

LFBAT 51100-R

Tower Battery 3U Type

Specifications



Support energy storage inverter manufacturer



Intelligent BMS equipped inside to maintain the battery always work at best condition



Max. charge and discharge current as 150A which is specially designed for solar energy



LiFePO4 battery, more stable and safe



Excellent standby self-consumption as low as 4mA .



Automatically output cut off after 30 days no charge and discharge to ensure security also can cut off output by manual operation .

Battery Parameters

Nominal Characteristics

Nominal Voltage 51.2V

Nominal Capacity(25°C,0.2C) 100Ah

Mechanical characteristics

Net weight 46.0KG

Dimension L*W*H 565*440*132mm

Terminal Double M6

Electrical characteristics

Voltage window 44.8V to 58.4V

Charge voltage 55.2V to 57.6V

Max.continue discharge current 100A

Max.pulse discharge current 150A 1Sec.

Max.continue charge current 50A

Operating conditions

Cycle life(+25C,0.5C,90%DOD,60%EOL) >6000 Cycles

Operation temperature Discharge -10°C to +50°C
Charge 0 °C to +50°C

Storage temperature 0 to 30°C

Storage duration 6 months at 25°C

Safety standard UN38.3,MSDS

Protection Level IP20

ESSC-HY5-EV7-BAT5

Energy Storage System with EV Charger

Specifications



PV, Storage, EV charging and Power distribution Integrated.



Controlled by built-in DSP and adopt advanced SPWM technology.



Modular design for good expansibility, up to 6 battery modules in parallel.



Easy Installation within 20 minutes individually.



24-hour real-time online monitoring.



Wheels for the machine are optional and available at an additional cost.

ESSC-HY5-EV7-BAT5 | Specifications

| Model | ESSC-HY5-EV7-BAT5 | ESSC-HY8-EV11-BAT10 |
|--|--|---------------------|
| Inverter Data | | |
| Max. Input Power(W) | 7000W | 11000W |
| PV Input Voltage Range(V) | 150~500 | 150~500 |
| MPPT Operating Voltage Range(V) | 120~430 | 150~800 |
| Number of MPP Trackers | 2 | 2 |
| Number of Strings per MPPT | 1 | 1 |
| Max. Input Current per MPPT | 15A/15A | 18A/18A |
| Nominal Utility Grid Voltage(V) | 220/230/240 | 380/400 |
| Nominal Utility Grid Frequency(Hz) | 50/60 | 50/60 |
| Rated Power Output to Utility Grid(W) | 5000 | 8000 |
| Max. Apparent Power Output to Utility Grid(VA) | 5500 | 8800 |
| Back-up Rated Power(W) | 4500 | 7200 |
| Switch Time | <10ms | <15ms |
| Battery Data | | |
| Battery Type | LiFePO4 | Lithium / Lead-Acid |
| Single Battery Energy(kWh) | 5.12 | 10 |
| No. of Expandable Batteries | 6 | 6 |
| Usable Energy Range(kWh) | 5.12~30.72 | 10.24~61.44 |
| Battery Voltage Range(V) | 41.6~58.5 | 41.6~58.5 |
| EV Charger Data | | |
| Rated Power(W) | 7000 | 11000 |
| Nominal Voltage(V) | 220 / 230 / 240 | 380/400 |
| Nominal Frequency(Hz) | 50 / 60 | 50 / 60 |
| Operation Mode | Swipe card/APP control/Insert charger plug to start automatically /Schedule appointment for charging | |
| Output cable | 5m AC charging cable | |
| Convexion Efficiency | | |
| Max. Efficiency | 98% | 98% |
| EU Efficiency | 97% | 97.5% |
| Max. Battery to AC Efficiency | 95% | 94.5% |
| MPPT Efficiency | 99.9% | |
| System Data | | |
| Operating Temperature Range (°C) | -25~55°C | -25~60°C |
| Relative Humidity | ≤95% (25°C) | ≤0-95% |
| Vibration | <0.5G | <0.5G |
| Noise | <35 dB | <25 dB |
| Installation Altitude above Sea Level | <2000m | ≤4000m |
| Protection Level | IP54 | IP66 |
| Cooling Mode | Natural Cooling | Air Cooling |
| Communication | RS485/CAN/WiFi | RS485/CAN/WiFi |
| Inverter Dimensions (W xH x D mm) | 645 x 557 x 370 | |
| EV Charger Dimensions (W xH x D mm) | 650 x 270 x 370 | |
| Single Battery Dimensions(W xH x D mm) | 585 x 270 x 370 | |
| Base Dimensions (W xH x D mm) | 680 x 110 x 378 | |

ESSD-OH5-BAT5-X

All-in-One Stackable Energy Storage System

Specifications



MPPT

Integrated inverter and storage battery, built-in MPPT controller.

UPS

Supports off-grid and UPS working modes.



Adopting high cycle times, LiFePO4 cells and intelligent system.

6

5kWh to 30kWh, with flexible energy configuration for the user.

APP

Cloud energy management application, cell phone & computer can grasp system data at any time.

Battery Parameters

| Battery Type | LifePO4 | LifePO4 | LifePO4 | LifePO4 | LifePO4 | LifePO4 |
|------------------------------|-------------------------------------|---------|---------|---------|---------|---------|
| Rated Voltage(V) | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2 |
| Rated Capacity(Ah) | 100 | 200 | 300 | 400 | 500 | 600 |
| Rated Energy(Wh) | 5120 | 10240 | 15360 | 20480 | 25600 | 30720 |
| Max. Operating Current(A) | 100 | 100 | 100 | 100 | 100 | 100 |
| Cycle Times | ≥6000 cycles @ 80% DOD, 25 °C, 0.5C | | | | | |
| Charge Voltage(V) | 56 | | | | | |
| Discharge Cut-off Voltage(V) | 46 | | | | | |
| Charge Temperature | 0°C- 60°C | | | | | |
| Discharge Temperature | -20°C- 60°C | | | | | |
| Storage Temperature | 0 °C ~ 45 °C @ 60% ±25% RH | | | | | |

| Model | ESSD-OH5-BAT5-X |
|---|------------------------------|
| Battery Data | |
| Battery Type | Lithium |
| Nominal Battery Voltage(V) | 48 |
| Max. Continuous Charging Current(A) | 80 |
| Max. Charge Power(W) | 4500 |
| Max. Discharge Power(W) | 5000 |
| Max. Discharge Power | |
| Max. Input Power(W) | 5500 |
| Max. Input Voltage(V) | 500 |
| MPPT Operating Voltage Range(V) | 120 ~ 430 |
| Start-up Voltage(V) | 150 |
| Nominal Input Voltage(V) | 300 |
| Number of MPPT Trackers | 1 |
| Number of String per MPPT | 1 |
| AC Output Data | |
| Rated Power(W) | 5000 |
| Nominal Output Current(A) | 21.7 |
| Nominal Output Voltage(V) | 220/230/240 |
| Nominal Output Frequency (Hz) | 50/60 |
| Output THDv (@Linear Load) | <3% |
| Conversion Efficiency | |
| Max. Efficiency | 93.6% |
| MPPT Efficiency | 99.9% |
| Protection | |
| AC Overcurrent Protection | Integrated |
| AC Short Circuit Protection | Integrated |
| AC Overvoltage Protection | Integrated |
| Remote Shutdown | Integrated |
| Environmental/Ambient Conditions | |
| Operating Temperature Range(°C) | 0 ~ 50°C |
| Excess Temperature Behaviour | Excess Temperature Behaviour |
| Relative Humidity | 0 ~95% |
| Installation Altitude above sea level | Up to 2000m above sea level |
| Cooling Method | Air Cooling |
| Mechanical Data | |
| Product dimensions (W x H x D mm) | \ |
| Protection Level | IP20 |
| Installation Type | Floor-standing |
| Communications | |
| Display | LCD, WLAN + APP |
| Monitoring Settings | Integrated data logger |
| Communication with BMS | CAN |
| Communication with Portal | WiFi |
| Other Data | |
| Topology | Transformerless |
| Reliability | Integrated |

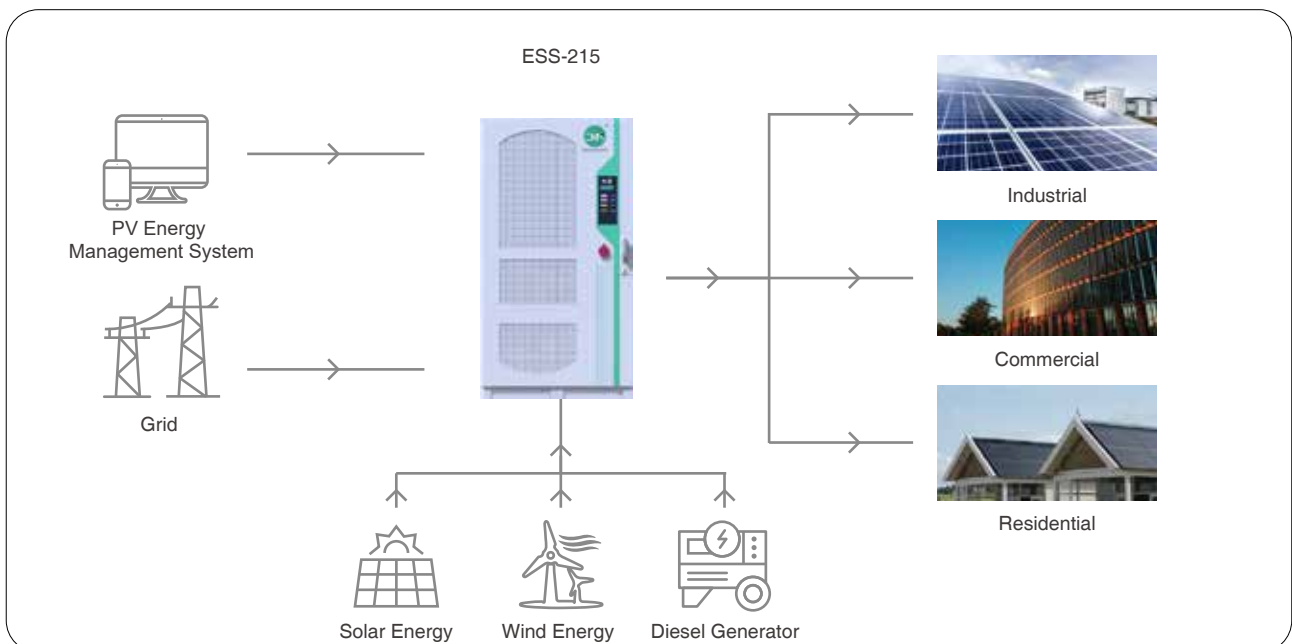
ESS-215

Intelligent C&I Energy Storage Integrated Cabinet

Specifications



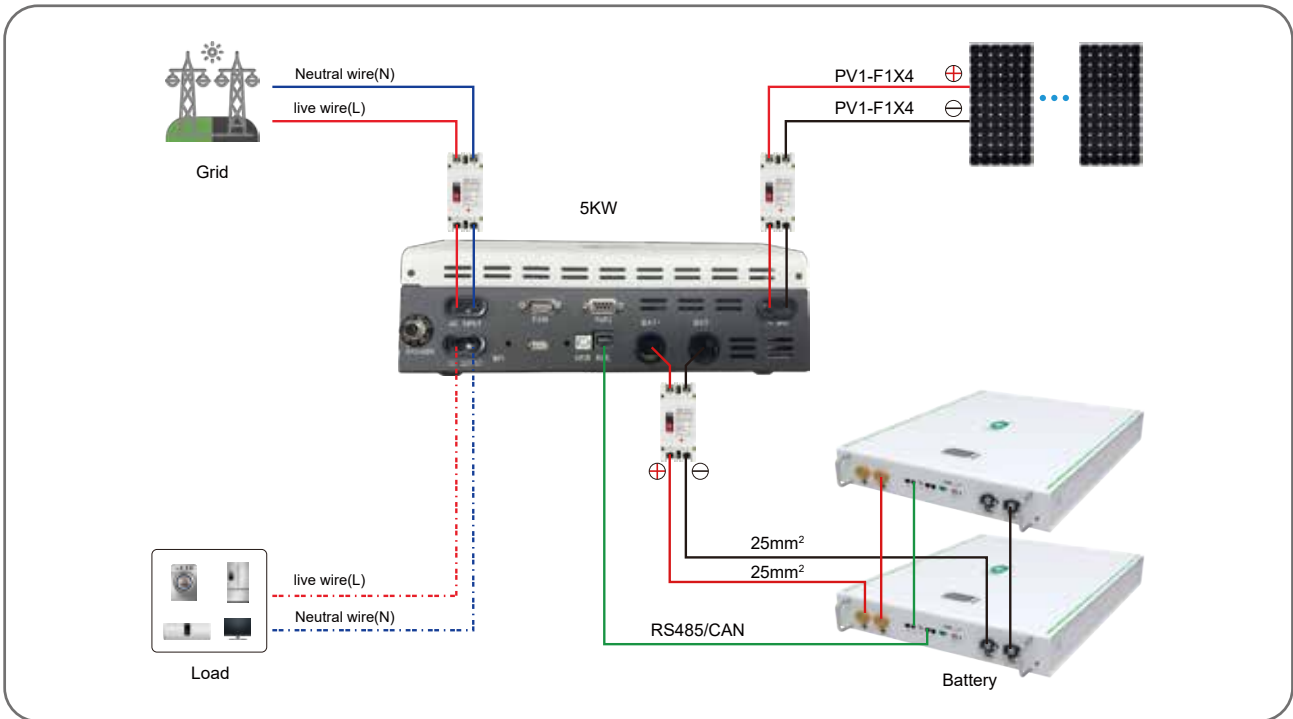
- Proven and safe, economical and environmentally friendly LiFePO₄ battery module, providing long life and reliability.
- High degree of modularization, simple structure, easy to install and maintain.
- High-performance and high-efficiency BMS, compatible with a variety of communication protocols.
- Comprehensive battery protection strategy to ensure the safety of the energy storage system.
- Intelligent temperature control system, effectively extending the service life of the battery.
- PACK targeted fire extinguishing function can be customized.
- Supports big data operation and maintenance, grid scheduling and regulation, remote monitoring and OTA upgrading.
- Multi-purpose scenarios: light storage and charging, peak shaving and valley filling, demand side response, etc.



| Model | ESS-215 |
|--|--|
| Battery Parameters | |
| Battery Type | LiFePO4 |
| System Battery Configuration | 3.2V/280Ah |
| Cell Capacity | 1P240S |
| Battery Rated Capacity | 215.04Kwh |
| Voltage Range | 768VDC |
| Roitage Range | 672 ~ 864V |
| Charge And Discharge Rate | ≤0.5C |
| AC Parameters (Grid-Connected) | |
| Rated Power | 100kW |
| Max.Power | 110kW |
| Wiring Mode | Three-phasefour-wire/Three-phasethree-wire |
| Rated Grid Voltage | 400VAC |
| Grid Voltage Range | 320~460v |
| Rated Current | 144A |
| Rated Grid Frequency | 50Hz / 60Hz |
| Grid Frequency Range | 45 ~ 55Hz / 55 ~ 65Hz |
| Total Current Waveform Distortion Rate | < 3% (rated power) |
| Power Factor | > 0.99 (rated power) |
| Power Factor Adjustable Range | -1 (advanced) ~1 (lag) |
| AC Parameters (Off Grid) | |
| AC Off-grid Voltage | 400VAC |
| AC Off-grid Frequency | 50Hz / 60Hz |
| AC Voltage Range | ±3% |
| Distortion Rate Of Off-grid Output Voltage | < 3% (linear load) |
| System Parameters | |
| Fire Protection System | Type Saerosol/HFC-propane/ Perfluorohexanone |
| Anti-corrosion Grade | C3 (C4\C5 optional) |
| degree Of Protection | IP54 |
| Operating Temperature Range (°C) | -30~+50(Derating above 45°C) |
| Storage Temperature (°C) | -20 ~ +55; SOC@30% ~ 50%, < 6 months |
| Working Humidity Range | 0 ~ 95%RH No Condensastion |
| Cooling Method | Air-conditioned Air-cooled |
| Installation Method | outdoor installation |
| System Communication Interface | Ethernet/RS485 |
| External System Communication Protocol | Modbus TCP/IEC61850/Modbus RTU |
| Altitude (m) | Within 2000m, 2000m derating |
| Dimensions (W xH x Dmm) | 1400 x 1200 x 2200 |
| Weight (kg) | 2300 |



System Integration





| Product Name | Energy Storage System |
|--------------------------|--|
| Model No. | ESSOffgrid001N |
| PV panel | 4*550W/pc or customization |
| Cable 4.0mm ² | 50m or customization |
| Solar Inverter | 5KW OH5000TL Off-grid (Max 6pcs in parallel) |
| Energy-Storage battery | 5.12kwh 51.2V 100AH or extension N*5.12kwh (2 ≤ N ≤ 16) Wall-mounted type It is available to accept electricity from the power-grid/PV panel it is unavailable to support power to the grid |
| Warranty time | PV Panel 10years Inverter 2 years Battery 5 years |
| Applications | for residential use |
| Selling point | for residential use Controlled online by PC or Cellphone anytime and anywhere |



| Product Name | Energy Storage System |
|--------------------------|---|
| Model No. | ESSOngrid001N |
| PV panel | 4*550W/pc or customization |
| Cable 4.0mm ² | 50m or customization |
| Solar Inverter | 5KW GH5000TL On-grid (Max 6pcs in parallel) |
| Energy-Storage battery | 5.12kwh 51.2V 100AH or extension N*5.12kwh (2 ≤ N ≤ 6) Stacked-mounted It is available to accept electricity from the power-grid/PV panel it is unavailable to support power to the grid |
| Warranty time | PV Panel 10years Inverter 5 years Battery 5 years |
| Applications | for residential use, |
| Selling point | for residential use Controlled online by PC or Cellphone anytime and anywhere |



| Product Name | Energy Storage System |
|--------------------------|---|
| Model No. | ESSOffgrid002N |
| PV panel | 4*550W/pc or customization |
| Cable 4.0mm ² | 50m or customization |
| Solar Inverter | 5KW OH5000TL Off-grid (Max 6pcs in parallel) |
| Energy-Storage battery | 5.12kwh 51.2V 100AH or extension N*5.12kwh (2 ≤ N ≤ 6) Stacked-mounted It is available to accept electricity from the power-grid/PV panel it is unavailable to support power to the grid |
| Warranty time | PV Panel 10 years Inverter 2 years Battery 5 years |
| Applications | common community, school, hospital supermarket, dormitory, farm and ship etc. |
| Selling point | Controlled online by PC or Cellphone anytime and anywhere |



| Proudct Name | Energy Storage System |
|--------------------------|---|
| Model No. | ESSongrid002N |
| PV panel | 4*550W/pc or customization |
| Cable 4.0mm ² | 50m or customization |
| Solar Inverter | 5KW GH5000TL On-grid (Max 6pcs in parallel) |
| Storage battery | 5.12kwh 51.2V 100AH or extension N*5.12kwh (2≤N≤6) Stacked-mounted It is available to accept electricity from the power-grid/PV panel it is available to support power to the grid |
| Warranty time | PV Panel 10years Inverter 5 years Battery 5 years |
| Applications | common community,school,hospital supermarket,dormitory,farm and ship etc. |
| Selling point | for commercial and industrial use, Controlled online by PC or Cellphone anytime and anywhere |



| Proudct Name | Energy Storage System |
|--------------------------|---|
| Model No. | ESSoffgrid003N |
| PV panel | 4*550W/pc or customization |
| Cable 4.0mm ² | 50m or customization |
| Solar Inverter | 5KW GH5000TL On-grid (Max 6pcs in parallel) |
| Storage battery | 5.12kwh 51.2V 100AH or extension N*5.12kwh (2≤N≤6) Stacked-mounted It is available to accept electricity from the power-grid/PV panel it is available to support power to the grid |
| Warranty time | PV Panel 10years Inverter 5 years Battery 5 years |
| Applications | common community,school,hospital supermarket,dormitory,farm and ship etc. |
| Selling point | for commercial and industrial use, Controlled online by PC or Cellphone anytime and anywhere |



| Energy Storage system with EV Charger | |
|---------------------------------------|---|
| Product Name | Energy Storage system with EV Charger |
| Model No. | ESSHybrid001N |
| PV panel | 12*550W/pc or customization |
| Cable 4.0mm² | 100m or customization |
| Solar Inverter | 5KW Hybrid On-grid/Off-grid inverter 7KW AC EV charger |
| Storage battery | 15.36kwh 51.2V 300AH or extension N*5.12kwh (3≤N≤8) It is available to accept electricity from the power-grid/PV panel it is available to support power to the grid |
| Warranty time | PV Panel 10years Inverter 5 years Battery 10 years |
| Combiner box | DC500V PG9 interface 2-in and 1-Out or others, customization DC1000V PG9 interface 2-in and 1-Out or others, customization |
| Applications | Support Euro Standard and GB standard park,parking,community,school,hospital,supermarket, dormitory,farm,gas station and kurbside etc. |



| Energy Storage system with EV Charger | |
|---------------------------------------|---|
| Product Name | Energy Storage system with EV Charger |
| Model No. | ESSongrid003N |
| PV panel | 2*400W/pc or customization |
| Solar Inverter | 800W GH800TL On-grid (12AWG cable Max 5pcs in parallel) |
| Warranty time | PV Panel 10 years Inverter 5 years |
| Applications | Balcony PV project Home balcony PV |



DONNERGY

Smart IoT



“Smart Donnergy”
WiFi data acquisition communication box



The running data of your PV plant will be uploaded to the server of Donnergy via this WiFi Dongle and it can be viewed either with your mobile app or our energy management system: power.donnergy.com.



Android / IOS APP

- Fast and simple, saving cost, time and worry
- Display single real-time data and power generation data
- Real time energy flow diagram and equipment status are clear and easy to see
- Monitor the power generation status of the power station at any time and anywhere, and the data is clear at a glance
- Support remote parameter setting and fault diagnosis
-



PC

- Support device remote firmware upgrade
- Real time control of equipment maintenance and operation status
- Multi level authority management, which can quickly retrieve power stations and equipment
- Visual display of equipment power generation and equipment operation status
- Support remote parameter setting and fault diagnosis
-

Smart lot WIFI Data Acquisition Communication Box

Specifications



Support WPS automatic network configuration;

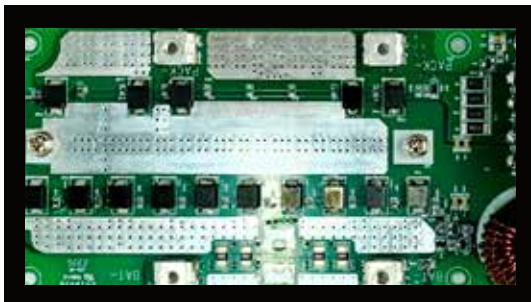


Enables remote upgrades without the need to be physically present
The inverter program can be upgraded;



Cloud energy management applications, mobile phones, computers at any time
Master the system data;

| General | |
|----------------------------------|--|
| Inverter communication interface | USB |
| Wireless standards | 802.11 b/g/n |
| Serial port communication rate | 115200bps |
| Nominal charge | 5120Wh |
| Frequency range | 2.412GHz-2.472GHz |
| Wireless transmit power | 802.11b: +16dBm(@11Mbps) 802.11g: +14dBm(@54Mbps) 802.11n: +13dBm(@HT20, MCS7) |
| Data acquisition interval | 1-10min adjustable (default 5 minutes) |
| Working mode | AP/STA/APSTA |
| Network distribution mode | APP/WEB/WPS |
| Status display | 2↑LED |
| Installation method | Plug and play, supporting inverter installation |
| Electrical performance | |
| Input voltage | 5V |
| Rated power | 3W |
| power consumption | < 1.5W |
| Dimensions (L*W*H) | 64*52*28 (mm) |
| weight | 30g±2 |
| Operating temperature | -40℃ - 85℃ |
| Operating humidity | <85% |
| Waterproof rating | IP65 |



BMS battery management system

BMS battery management system is mainly used for communication backup power supply batteries, home storage and other energy storage systems. It is applicable for battery packs consisting of 15-16 series of Li (NiCoMn) O₂ or LiFePO₄ cells. It can provide overcharge, overdischarge, overcurrent, over-temperature and short-circuit protections to the the battery pack, monitoring the voltage, current and other working state of the battery pack. It is featured with fault alarm log recording function and it supports accurate estimation of the SOC during charging and discharging. Charge equalization is another important feature of our EMS and it supports parallel operation and it can be used to communicate with the dynamic loop monitoring or the upper computer through the RS485/CAN/UART serial port, and use the upper computer software for parameter configuration and data monitoring.

| | |
|---|--|
| Type of lithium battery | Li (NiCoMn) O ₂ / LiFePO ₄ |
| Number of lithium battery strings | 15-16 strings |
| Battery capacity | 100AH |
| Electricity meter function | SOC estimation |
| Maximum continuous charging and discharging current | 100A |
| Pre-charge function | Support capacitor charging above 20000UF |
| External communication mode | RS485/CAN/UART |

| General | 16S100ABMS | |
|---|--|-----------------------|
| Monomer overcharge protection | Default parameters | Whether it can be set |
| Cell overvoltage alarm voltage | 3650mV | yes |
| Single overcharge protection voltage | 3750mV | yes |
| Monomer overcharge protection delay | 15.0S | yes |
| Motive overvoltage protection clearance | Default parameters | Whether it can be set |
| Single overcharge protection release voltage | 3380mV | yes |
| Discharge release | Discharge current>300mA | / |
| Monolithic overdischarge protection | Default parameters | Whether it can be set |
| Single overdischarge alarm voltage | 2600mV | yes |
| Single overdischarge protection voltage | 2300mV | yes |
| Monomer over-discharge protection delay | 15.0S | yes |
| Monomer over-discharge protection delay | Default parameters | Whether it can be set |
| Single overdischarge protection release voltage | 2400mV | yes |
| Charging is released | Charging current > 300mA | / |
| Overall overcharge | Default parameters | Whether it can be set |
| Overall overcharge alarm voltage | 58.4V | yes |
| Overall overcharge protection voltage | 59.2V | yes |
| Overall overcharge protection delay | 1.0S | yes |
| Overall overvoltage protection is removed | Default parameters | Whether it can be set |
| Overall overcharge protection release voltage | 54V | yes |
| Capacity decommissioning | SOC<96% | / |
| Discharge release | Discharge current > 300mA | / |
| Overall overdischarge protection | Default parameters | Whether it can be set |
| Overall overdischarge alarm voltage | 41.6V | yes |
| Overall overdischarge protection voltage | 36.8V | yes |
| Overall overdischarge protection delay | 1.0S | yes |
| Overall overdischarge protection is lifted | Default parameters | Whether it can be set |
| Overall overdischarge protection release voltage | 38.4V | yes |
| Discharge when there is a charge | Charging current > 300mA | / |
| Charging current limit function | Default parameters | Whether it can be set |
| Charge current limit | 10A | / |
| Charge overcurrent protection | Default parameters | Whether it can be set |
| Charge overcurrent alarm current | 110A | yes |
| Charge overcurrent protection current | 120A | yes |
| Charge overcurrent protection delay | 1.0S | yes |
| Charging overcurrent protection is removed | Default parameters | Whether it can be set |
| Automatic discharge release | Automatic dismissal after 30s | / |
| discharge | Discharge current > 300mA | / |
| Discharge overcurrent protection | Default parameters | Whether it can be set |
| Discharge overcurrent 1 alarm current | 110A | yes |
| Discharge overcurrent1 protects the current | 120A | yes |
| Discharge overcurrent 1 protection delay | 1.0S | yes |
| Discharge overcurrent 1 protection delay | Default parameters | Whether it can be set |
| Automatic purge | automatically discharged after 1 minute | / |
| Charging clears short-circuit protection | Charging current > 300mA | / |
| Short-circuit protection | Default parameters | Whether it can be set |
| Short-circuit protection | Integrated | / |
| Short-circuit protection is removed | Short-circuit protection is automatically released | / |

| General | 16S100ABMS | |
|--|--------------------|-----------------------|
| MOS high temperature protection | Default parameters | Whether it can be set |
| MOS overtemperature alarm temperature | 90°C | yes |
| MOS overtemperature alarm temperature | 115°C | yes |
| MOS protection release temperature | 85°C | yes |
| Cell temperature protection | Default parameters | Whether it can be set |
| Charging low temperature alarm temperature | 0°C | yes |
| Charge low temperature protection temperature | -5°C | yes |
| Charging low temperature protection to release temperature | 5°C | yes |
| Charging high temperature alarm temperature | 50°C | yes |
| Charging high temperature protects the temperature | 55°C | yes |
| Charging high temperature protection release temperature | 50°C | yes |
| Discharge low temperature alarm temperature | -15°C | yes |
| Discharge low temperature protection temperature | -20°C | yes |
| Discharge low temperature protection release temperature | -15°C | yes |
| Discharge high temperature alarm temperature | 55°C | yes |
| Discharge high temperature protection temperature | 60°C | yes |
| Discharge high temperature protection release temperature | 55°C | yes |
| Environmental requirements | | |
| Operating temperature | -20 ~ 60°C | |
| Storage temperature | -20 ~ 75°C | |
| Operating humidity | 10 ~ 85%RH | |
| Storage humidity | 10 ~ 85%RH | |



APP



Log in with the User Name and Password you already have or to register to create a new User Account or to connect your inverter to internet by clicking "WIFI Setting" on this page.



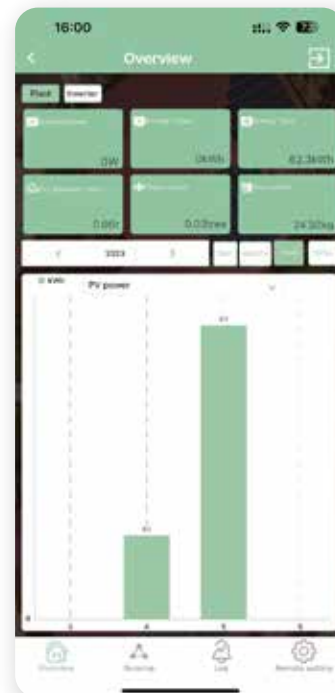
Connect your inverter to WiFi to complete network configuratin on this page after clicking "WIFI Setting".

Sign in

WIFI settings



You will see this Plant List page after logging in. Basic information like PV Plant name, Rated Power of the inverter, system time, Daily Generated Power, Total Generated Power, Daily Earning and Total Earning will be shown on this page if you have already added plant(s) to your account.



Click to select 1 PV plant and you will see this page. Power generated by PV daily, monthly and annually will be shown here on this page either by numbers or charts and your contribution to Environment Protection will be shown accordingly in the form of trees or coal that you have saved or CO2 Emission you've helped to reduce.

List of power plants

Overview of power station



APP



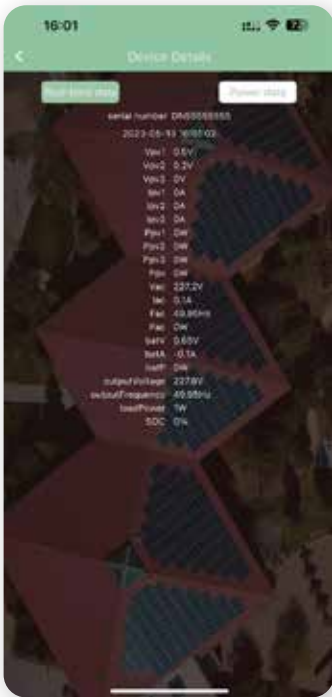
Click Running tag and you will see this page. The diagram on this page shows how the inverter works in different scenarios with the PV array, Battery, Utility Grid and Loads.



Click the Log tag and you will see it like this if you have already got a few warnings or alarms. Faults of the inverter will be kept here for you to read and use for analysis.

Equipment operation

Plant log



Click the inverter on the Running Page and you will see this page. The real-time power generation data is displayed here.



Click the Remote Settings tag and you will see this page. You are able to make basic settings, to select different work modes, to restart your WiFi Dongle, to restart your inverter or to activate your battery on this page.

Device Details

Remote Settings





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