

NEW

Summer Serise

GE-F60/GE-F120-2H2

NEW

Winter Serise

MS-G215-2H2 & MS-GS215-2H2

Safety Protection

- Lithium iron phosphate (LFP) battery packs and systems all use aerosol fire suppression solution.

Total Protection

- Combustible gas, smoke and temperature detction.
- Active exhaust system.
- Fire alarm.

Integrated Technology

- EMS, hybrid inverter and BMS integratin technology.
- Power supply redundancy design.
- Support for black start function, off-grid operation.

Flexible Extension

- Support battery expansion a maximum capacity of **3600kWh** (Off-grid).

NEW

Winter Serise

MS-LC430-2H2/MS-LC430-BC-2/MS-DC420-2/MS-DCC180-2

Scalable

- Support up to **5** units off-grid backup, maximum **500kW/1MWh**.
- Support up to **20** units on-grid in parallel, maximum **2MW/4.3MWh**.
- Support up to **10** units off-grid in parallel, maximum **1MW/2.15MWh**.

Intelligent Control

- Thermal management keeps battery **< 35°C**.
- Peak-valley mgmt, anti-backflow, overload protection.
- Load tracking, demand control, backup power, phase separation.

Reliable

- Operating temp: **-20°C to 50°C**.
- IP54 & C5 protection rating.
- Operate up to **3000m** altitude.
- 1.1x** overload capacity.
- Balancing solutions extend battery life.
- Triple auxiliary power design for stable supply.

Multi-Fusion

- Integrated EMS, PCS, and BMS.
- Support expansion of MPPT module.
- Support off-grid backup.

Intelligent Cloud Platform

- Customizable load algorithmic modules.
- 24-hour** online O&M.
- Battery life and safety warning.
- Device cloud interconnection.

Ultimate Safety

- 3+3 Fire Protection System.
- 3+3 Electrical Safety Safeguards.
- AC Leakage & DC Insulation Detection.
- High-voltage interlocking, preventing load arc operation.

Multiple Application Scenarios

- Peak-to-Valley arbitrage/Peak-to-Valley shifting.
- Virtual power plant ready.
- Off-grid operation (Islands, communication base stations, etc.).

Versatile Expansion

- PCS/BMS/EMS All-in-one modular design.
- Support up to **10** cabinets in parallel.
- Support **2/4/6/8-hour** energy storage applicationsns.
- Higher energy density to reduce footprint.
- PV and BESS DC Coupling.

Safer

- LFP batteries.
- System supports aerosol fire extinguishing.
- Battery compartment with auto venting & explosion-proof.

Deye Cloud

All-in-one Energy & Device Management Platform

Unlock Significant Savings

Individual Add-On for Dynamic Tariff

Future Topics Oriented: EV Charger, Heat Pump etc.

Tailored Solution to Deye Devices

All in One

Smarter home energy and device management

Cloud-edge Collaboration

Faster and more efficient data processing

Accelerated Connectivity

Optimized for speed and performance

Advanced Smart Energy

A smarter way to manage your electricity bills

Smarten Up Your Home Energy

Download Deye Cloud APP to join us! Embrace a seamless, effortless energy experience that's both ecofriendly and budget-friendly with our intelligent assistant.

NEW

Wireless Energy Manage System

A smart load management and home automation solution based on LoRa communication.

LoRa SUN-SMART-TX01

All Deye hybrid inverters can serve as the local control center for the Deye Smart Home IoT System. Simply install the **Deye Smart Transmitter(TX)** to the inverter's Meter port to easily pair with Deye LoRa devices.

LoRa SUN-SMART-CT01

**Deye Wireless CT** is installed in the distribution box to monitor power consumption. Supports both LoRa and RS485 communication methods simultaneously.

LoRa SUN-SMART-PLUG01-F

**Deye Smart Plug** can be easily installed in any standard socket, instantly upgrading the appliance plugged in to a smart device.

LoRa SUN-SMART-PLUG01-F

**Deye Smart Switch** is designed for outdoor high-power loads, offering the same logic control as Smart Plugs, supporting both single-phase and three-phase loads. With the Deye Cloud APP or directly on the inverter's screen, you can customize the on/off logic for each Smart Plug based on factors like time and battery SOC levels.

LoRa SUN-EVSE22K01-EU-AC

**Deye Smart EV Charger** can be directly connected to any AC port of the inverter and is controlled by the inverter via LoRa communication. It offers flexible options to take advantage of low-cost electricity, with modes such as Plug and Play, Time of Charge, or Solar Energy Only.

Deye

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Deye New Energy / Deye ESS

www.deyeinverter.com / www.deyeess.com

Deye

Pioneering Sustainable Energy Solution

String Inverter | Hybrid Inverter | MicroInverter

Company Profile

Ningbo Deye Inverter Technology Co., Ltd, founded in 2007 with registered capital 56 million USD, is one of the China's high-tech enterprises and a subsidiary of Deye Group. With a plant area over 600,000m² and complete production and testing equipment, Deye has become a major player in the global solar inverter market.

Ningbo Deye Inverter Technology Co., Ltd is dedicated to providing complete photovoltaic power system solutions, including residential and commercial power plants solutions. Also, Deye offers solar energy storage system solutions. Among them, PV grid-connected inverter power range from 1-136kW, Hybrid inverter 3kW-80kW, and microinverter 300W-2200W.

As a technology-oriented company, Deye has always been committing to research and develop new cutting-edge technologies to provide efficiency and reliable products. For example, Deye adopts T-type three-level topology and enhanced SVPWM algorithm to further improve the conversion efficiency by 0.7% compared with common SPWM. With frequency droop control technology, Deye string inverter is able to work with diesel generator, which greatly expands the scope of the product application.

2007

2017

2019

2021

2022

2023

2024

Founded in 2007 with registered capital of **56 million USD**.

Deye has launched first generation hybrid inverter and attracted a lot of attention with many unique features such as V/f droop control technology and battery DC / DC topology etc...

By the end of 2019, with total ship-ments 30,000+, Deye hybrid inverter has become Top 3 in South Africa, Pakistan and **Top 1** Chinese brand in USA.

Deye Group was successfully listed on SSE of China in 2021, **Stock Code 605117.SH**.

Launched the latest generation of 50kW hybrid inverter, equipped with independent two-way battery terminal port.

Cumulative shipments of hybrid inverters surpass **1 million units**.

Launch of the next-generation hybrid inverters and microinverters with a fresh design.



Micro Hybrid ESS  
SUN-BK100-2.0KWH-EU-AM2

AC-Coupled Mode  
Upgrade the existing PV balcony system to ESS

Off-Grid Mode  
Standalone & portable energy storage

Hybrid Grid-Tied Mode  
Self-consumption

Extreme Weather Adaptability  
· Wide Operating Temperature: -10°C ~ 50°C

Flexible Operation  
· Support On-grid and Off-grid Operation

High Protection  
· IP65: Water & Dust Protection

Long Lifespan  
· 10-year Warranty  
· 6000 Cycles to 70% Capacity

Smart Connection  
· Bluetooth, Wi-Fi and Mobile APP

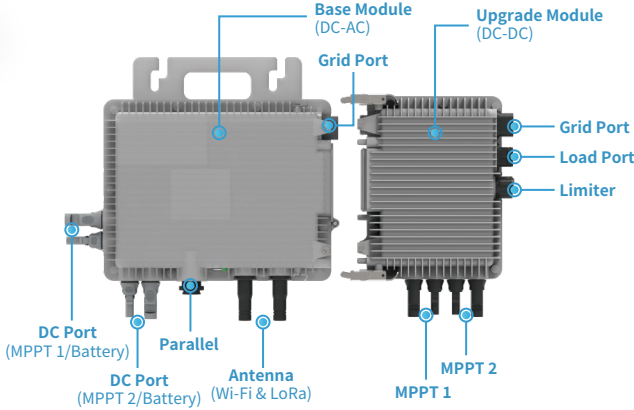
Convenient Charge  
· Portable Power with USB-A and Type C

Microinverter

Mode	SUN-D110G4-EU-Q0	SUN-M220G4-EU-Q0-I
PV String Input Data		
Max. PV Input Power(W)	210-770(2 Piece)	210-770(4 Piece)
Max. PV Input Voltage(V)	120	60
Start-up Voltage(V)	20	20
MPPT Voltage Range(V)	45-100	25-55
Rated PV Input Voltage(V)	85	42.5
Max. Operating PV Input Current (A)	18	18+18+18+18
Max. Input Short Circuit Current (A)	27	27+27+27+27
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1	4/1
AC Output Side		
Rated AC Output Active Power(W)	1100	2200
Max. AC Output Apparent Power(VA)	1100	2200
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un L/N/PE	220/230 0.85Un-1.1Un L/N/PE
Grid Connection Form	50/45-55, 60/55-65	50/45-55, 60/55-65
Rated Output Grid Frequency /Range(Hz)	-	3
Max. Unit per Branch	0.9 leading-0.9 lagging	0.9 leading-0.9 lagging
General Data		
Operating Temperature Range(°C)	-40 to +65°C	-40 to +65°C
Ingress Protection(IP) Rating	IP 67	IP 67
Over Voltage Category	OVC II(DC), OVC III(AC)	OVC II(DC), OVC III(AC)
Communication	Wi-Fi	Wi-Fi
Weight(kg)	2.7	4.95
Warranty	Standard 10/15 years, extended warranty	10 Years
Type of Cooling	Natural Cooling	Natural Cooling

Micro Hybrid Inverter

SUN-BK60/80/100SG01-EU-AM2






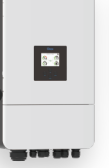


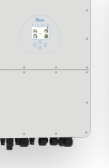
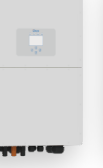
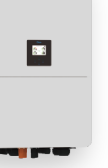
- Support on-grid, off-grid, and AC coupling modes.
- Selectable power outputs: **600W, 800W, or 1000W.**
- Max grid bypass current: **10A.**
- Innovative split design; base module available as standard micro-inverter.
- Two independent MPPTs, compatible with **18A** PV modules (max PV input power: **1600W**).
- Supports battery connection via an added DC-DC module, enabling energy storage capabilities.
- **4ms** on-grid/off-grid switching.
- Wi-Fi enabled for cloud monitoring and management.
- Supports **LoRa**-based wireless CT and smart plug for efficient energy management.

Three Phase String Inverter  
SUN-136K-G01P3-EU-AM8

- 8 MPP trackers, Max. efficiency up to 98.8%
- Zero export application, VSG application
- String intelligent monitoring (optional)
- Wide output voltage range
- Anti-PID function (Optional)
- Type II DC/AC SPD

Hybrid Inverter  
3-80kW

Deye's hybrid inverters are globally recognized, commanding a leading market share in countries such as South Africa. They provide accessible, highly reliable, and sustainable energy solutions for users in areas with weak grid infrastructure or high electricity costs. These solutions address various needs, including residential to commercial energy storage applications.

	Single Phase Hybrid Inverter				Three Phase Hybrid Inverter				
Model									
	SUN-8K-SG05 LP1-EU-AM2-P	SUN-10K-SG02 LP1-EU-AM3-P	SUN-18K-SG01 LP1-EU-AM3-P	SUN-12K-SG05 LP3-EU-SM2	SUN-20K-SG05 LP3-EU-SM2	SUN-20K-SG01 HP3-EU-AM2	SUN-30K-SG02 HP3-EU-AM3	SUN-50K-SG 01HP3-EU-BM4	SUN-80K-SG02 HP3-EU-EM6
Battery Input Data									
Battery Type	Lead-acid or Lithium-ion			Lithium-ion					
Battery Voltage Range (V)	40-60	40-60	40-60	40-60	40-60	160-700	160-700	160-800	160-1000
Max. Charging Current (A)	190	220	350	240	350	37	75	50+50	80+80
Max. Discharging Current (A)	190	220	350	240	350	37	75	50+50	80+80
Charging Strategy for Li-ion Battery	Self-adaption to BMS								
Number of Battery Input	1	1	2	1	2	1	1	2	2
PV String Input Data									
Max. PV Access Power (W)	16000	20000	36000	24000	40000	40000	60000	100000	160000
Max. PV Input Power (W)	12800	16000	28800	19200	32000	32000	48000	80000	128000
Max. PV Input Voltage (V)	500	500	500	800	800	1000	1000	1000	1000
Start-up Voltage(V)	125	125	125	160	160	180	180	180	180
MPPT Voltage Range (V)	150-425	150-425	150-425	200-650	160-650	150-850	150-850	150-850	150-850
Rated PV Input Voltage (V)	370	370	370	550	550	600	600	600	650
Max. Operating PV Input Current (A)	32×2	32×3	36×3	26×2	36×2	26×2	36×3	36×4	36×6
Max. Input Short-Circuit Current (A)	48×2	60×3	54×3	39×2	54×2	39×2	54×3	55×4	54×6
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2	3/2+2+2	3/2+2+2	2/2+2	2/2+2	2/2+2	3/2+2+2	4/2+2+2+2	6/2+2+2+2+2+2
AC Input/Output Data									
Rated AC Output Active Power(W)	8000	10000	18000	12000	20000	20000	30000	50000	80000
Max. AC Output Apparent Power(VA)	8800	11000	19800	13200	22000	22000	33000	55000	88000
Max. Continuous AC Passthrough (grid to load) (A)	50	60	100	45	70	80	80	200	200
Peak Power (off-grid) (W)	2 times of rated power, 10s				1.5 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging								
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un				220/380, 230/400 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				50/45-55, 60/55-65				
Grid Connection Form	L+N+PE				3L+N+PE				
Efficiency									
Max. Efficiency	97.6%				97.6%			97.6%	98.7%
Euro Efficiency	96.5%				97.0%			97.0%	98.1%
MPPT Efficiency	>99%				>99%			>99%	>99%
Interface									
Communication Interface	RS485/RS232/CAN								
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)								
General Data									
Operating Temperature Range(°C)	-40 to +60°C, >45°C Derating								
Permissible Ambient Humidity	0-100%								
Permissible Altitude(m)	2000m	2000m	3000m	3000m	3000m	2000m	3000m	2000m	3000m
Noise(dB)	<30	<45	<55	≤55	<60	≤55	≤55	≤65	≤65
Ingress Protection(IP) Rating	IP 65								
Inverter Topology	Non-Isolated								
Over Voltage Category	OVC II(DC), OVC III(AC)								
Weight(kg)	24.9	35.6	54.1	35.2	51.9	30.5	46	80	105
Type of Cooling	Intelligent Air Cooling								
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy								

Spring Serise  
RW-F16



RW-F16

Safer

- LFP Battery : Safe, long-lasting, high-efficiency.
- Built-in circuit breaker, Intelligent BMS. Eco-friendly materials, non-toxic, pollution-free module.

Easy Operation & Maintenance

- Battery module auto networking ( No DIP switches ).
- Support remotely monitoring and upgrade the firmware via Deye inverter.
- Support external power supply activation, prevents battery suspension.
- Allow over-discharge direct recharge, easy to maintain.

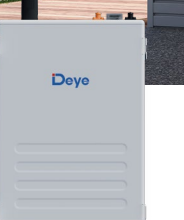
Reliable

- Built-in circuit breaker, Support 160A charge an 160A discharge.
- Charge from 0°C to 55°C, discharge from -20°C to 55°C.

Flexible Application

- Support Max. 32 units in parallel.
- Built-in 10A constant-current limit charge.
- Compatible with any brand inverter charge and discharge.
- Suited to provide energy for backup power, residential, etc.

NEW  
Spring Serise  
SE-F5 Pro/SE-F12



SE-F5 Pro

SE-F12

Comprehensive Protection

- Advanced BMS with active fuse.

Superior Performance

- Supports Max. 1.2C (6kW or 12kW) discharge, GaN MOSFETs: 50% loss reduction, high-temp resilient.

Easy Maintenance

- Auto-networking, Local monitoring mode for battery, remote monitoring mode for ESS.

Optimized Energy Density

- Integrated PACK: reduced line loss, enhanced energy density.

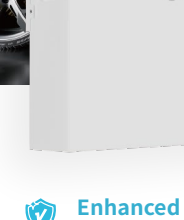
Reliable Durability

- Operates reliably in -20°C to 55 °C, natural cooling.

Flexible Expansion

- Max. 32 units in parallel.

NEW  
Summer Serise  
SS-F10



SS-F10

Enhanced Scalability & Safety

- Up to 6 units in parallel, max. capacity of 60kWh.
- Intelligent arc detection on DC Side (Optional).

Intelligent Management

- Integrated master-slave BMS board with power circuitry (Max output: 20A / 256DC / 512DC).
- Max. passive balancing current of 0.15A, tripling equalization efficiency.

Advanced Structural Design

- Direct Cell-to-Pack integration with welded assembly enhanced energy density.
- Plastic enclosure replaces metal casing, increasing energy density by 14%.
- Sleek brushed metal finish with integrated LCD screen.

Easy Operation & Maintenance

- MC4 quick connectors for simplified installation.
- Visual fault codes for local diagnostics and remote real-time monitoring.

Spring Serise  
RW-F5.3-1H3



RW-F5.3-1H3

Enhanced Reliability

- Built-in Intelligent BMS, providing complete protection.
- Natural cooling.
- IP65 - rated for indoor and outdoor use.
- Wide temperature range : -10°C to 55°C.

Smart Application

- Peak-shaving, smart load, AC couple etc.
- Fast switching time of 4ms, ensuring your energy security.

Flexible Expansion

- Max.16 units in parallel ( 80kW/84.8kWh ).
- Support expansion of Deye 5.3kWh LV battery, allowing up to 31 batteries for a Max. capacity of 164.3kWh.

All-in-One Design

- Integrated 5kW hybrid inverter and 5.3kWh LF battery.

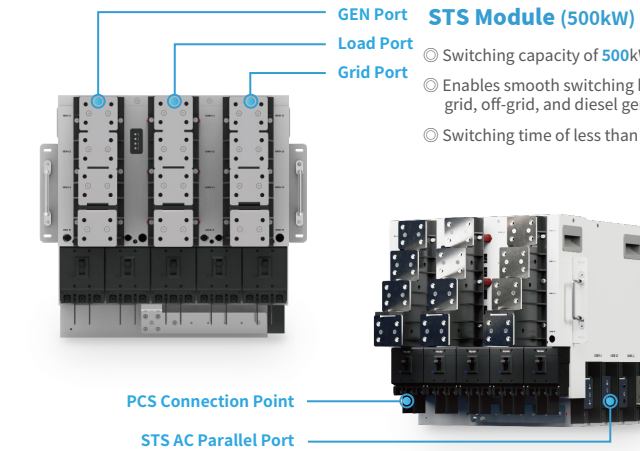
Easy Installation

- Flat design, wall-mounted, saving installation space, quick and easy installation.

Intelligent Control

- Comfortable and easy control via App, PC or Touch-Display.

NEW  
100KW-2.5MW  
C&I ESS SOLUTION



MPPT Module (8 MPP Trackers)

- Maximum 200kW Pp PV module connection with 8 MPPT channels, 40A per MPPT.

PV Input 8 MPPT

- CAN/RS485

DC Port

- AC Output

PCS Module (100kW/125kW)

- 175A/220A charge and discharge current.
- Maximum efficiency of 98.5%.
- System rated power up to 2.5MW.
- Eliminating the need for additional EMS.
- Integrates zero-export and time-of-use control functions.
- Supports instantaneous peak power up to 170% of rated power.