

5kW~20kW/8~24kWh All-In-One Three Phase Energy Storage Solution



POWERING YOUR LIFE



GB-SL Pro (SUMMER SERIES)



ALL IN ONE

Integrated design, beautiful appearance and scene integration



Maximum output

100% unbalanced output, each phase;
Max.output up to 60% rated power



Maximum connection

Max.10pcs parallel for on-grid and off-grid operation



High-voltage stack

Modules are connected in series without cable connection, and high-voltage platform improves system efficiency



Thermal management

Temperature detection of key parts, cell, power plug-in, etc



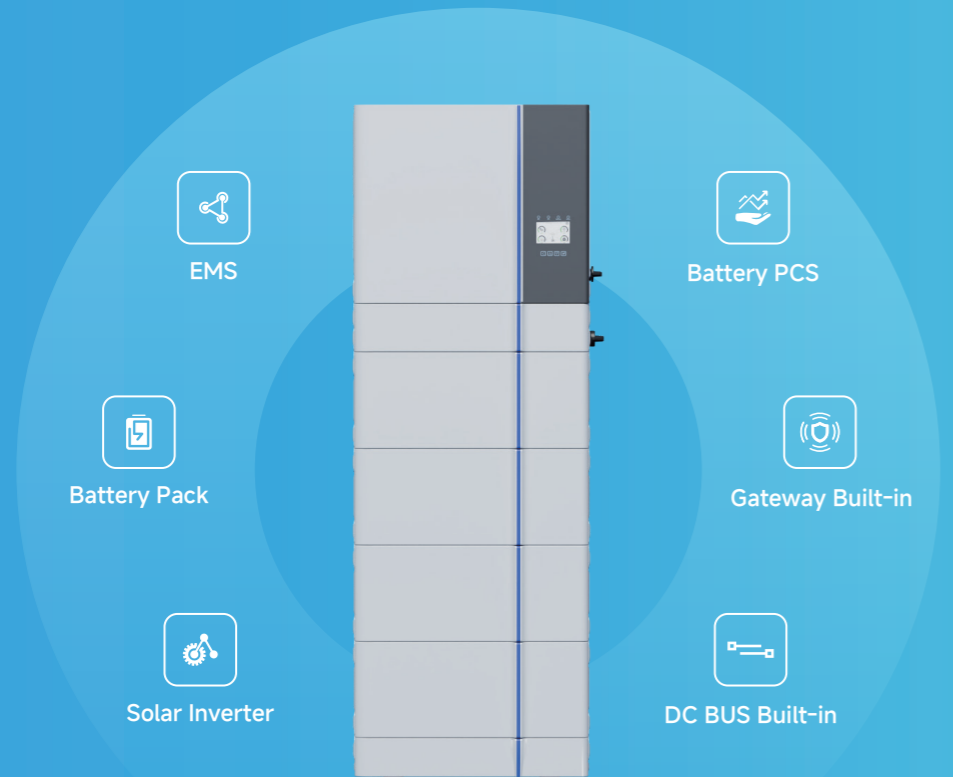
Wide temperature operation

The heating function is optional to meet the application scenarios with low temperature and no sense

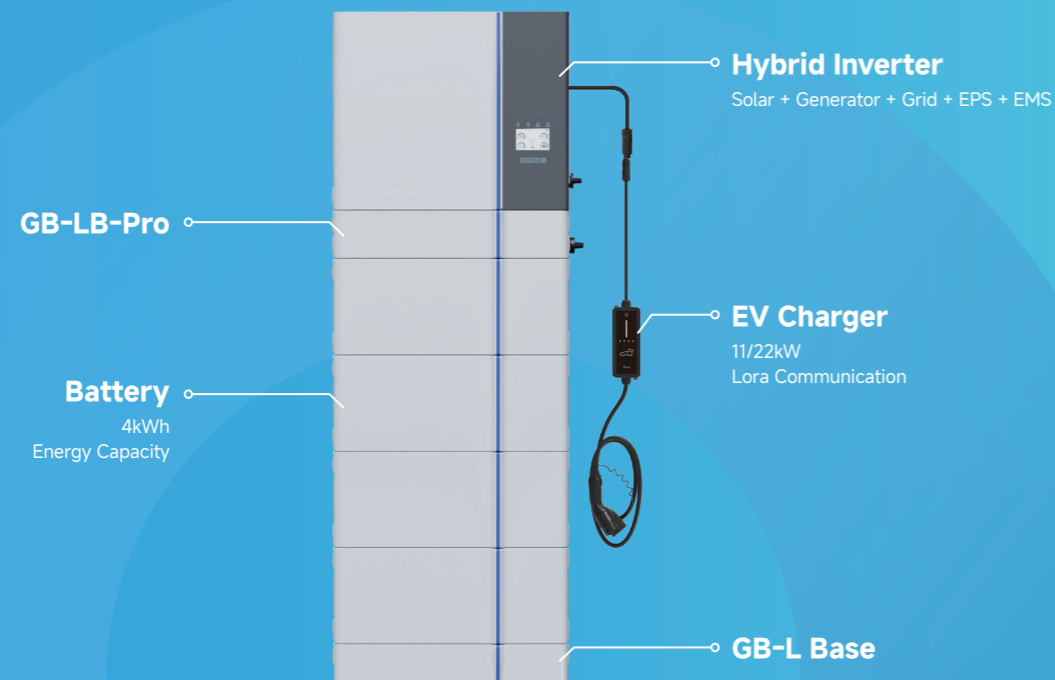
www.deyeess.com / www.deyeinverter.com

ALL-IN-ONE POWER, READY IN MINUTES

6-in-One, Smart Integrated Design



- 
5-20kW
 Three-Phase Inverter
- 
8-24kWh
 Flexible System Capacity
- 
Tool-Free
 Stacking Installation
- 
One-Click
 System Setup
- 
Gateway & DC Bus
 Built-in



System Components

Deye GB-SL Pro 5K/6K/8K/10K/12K/15K/20K-AU

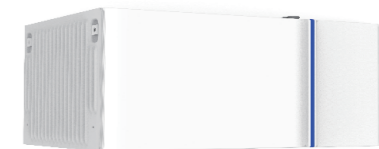
Model	Description
GB-S 5K/6K/8K/10K/12K/15K/20K-AU	Hybrid inverter
Dimension (W × D × H)	540 × 385 × 450mm
Weight Approximate	39.8kg



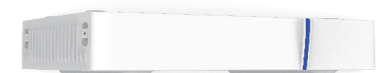
GB-LB-Pro	High voltage battery cluster control box
Operating Voltage	120 ~ 750Vdc
Nominal Charge / Discharge Current	40A
Max.Charge / Discharge Current	50A
Operating Temperature Range	-20 ~ 65°C
Ingress Protection	IP65
Dimension (W × D × H)	540 × 385 × 110mm
Weight Approximate	12kg



GB-L-Pro-Pack4.1-2	4 kWh battery module
Battery Type	LiFePO ₄ (LFP)
Nominal Voltage	102.4Vdc
Rated Capacity	40Ah
Rated Energy	4kWh
Max. Charge/Discharge Current	40A
Peak Charge/Discharge Current	50A
Charge Temperature	-20°C ~ 55°C
Discharge Temperature	-20°C ~ 55°C
Storage Temperature	0°C ~ 35°C
Ingress Protection	IP65
Dimension (W × D × H)	540 × 385 × 220mm
Weight Approximate	39kg



GB-L Base	Battery module base
Dimension (W × D × H)	540 × 385 × 100mm
Weight Approximate	7kg




Deye Hybrid Inverter

5~20kW Three-Phase

4~24kWh System


 **100%**
unbalanced output

 **2x** rated power
for 10 seconds

 **Quick and simple**
setup

 Smart **EMS** with
real-time monitoring

 **One-click** diagnostics
via Deye Cloud

 **IP65** protection for reliable
outdoor performance

RESIDENTIAL ESS SOLUTION

Model	GB-S 5K-AU	GB-S 6K-AU	GB-S 8K-AU	GB-S 10K-AU	GB-S 12K-AU	GB-S 15K-AU	GB-S 20K-AU
Battery Input Data							
Battery Type	Lithium-ion						
Battery Voltage Range (V)	160 ~ 700						
Max. Charging Current (A)	30					37	
Max. Discharging Current (A)	30					37	
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV access power(W)	10000	12000	16000	20000	24000	30000	40000
Max. PV Input Power(W)	7500	9000	12000	15000	18000	22500	30000
Max. PV Input Voltage (V)	1000						
Start-up Voltage(V)	180						
PV Input Voltage Range(V)	180-1000						
MPPT Voltage Range(V)	150-850						
Full Load MPPT Voltage Range(V)	195-850	195-850	260-850	325-850	340-850	420-850	500-850
Rated PV Input Voltage (V)	600						
Max. Operating PV Input Current(A)	20+20	20+20	20+20	20+20	26+20	26+20	26+26
Max. Input Short-Circuit Current(A)	30+30	30+30	30+30	30+30	39+30	39+30	39+39
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1					2/2+1	2/2+2
Max. Inverter Backfeed Current To the Array	0						
AC Input/Output Data							
Rated AC Input/Output Active Power(W)	5000	6000	8000	10000	12000	15000	20000
Max. AC Input/Output Apparent Power(VA)	5000	6000	8000	10000	12000	15000	20000
Peak Power (off-grid)(W)	1.5 time of rated power, 10 S						
Rated AC Input/Output Current(A)	7.3	8.7	11.6	14.5	17.4	21.8	29.0
Max. AC Input/Output Current(A)	7.3	8.7	11.6	14.5	17.4	21.8	29.0
Max. Continuous AC Passthrough (grid to load)(A)	40			80			
Max. Output Fault Current (A)	14.6	17.4	23.2	29	34.8	43.6	58
Max. Output Overcurrent Protection (A)	78						114
Rated Input/Output Voltage/Range(V)	230/400V 240/415V 0.85Un-1.1Un						
Grid Connection Form	3L+N+PE						
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	97%						
MPPT Efficiency	99.9%						
Interface							
Display	LCD+LED						
Communication Interface	RS232, RS485, CAN						
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN (optional)						
PV Connection	VP-D4						
General Data							
Operating Temperature Range (°C)	-40 ~ 60°C, >45°C Derating						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Warranty	10 Years						
Type of Cooling	Natural Cooling	Intelligent Air Cooling					
Grid Regulation	AS/NZS 4777.2						
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						

Deye GB-L Pro Battery

4kWh | LFP | Stacked Battery Module
8kWh~24kWh Per Stack

Highly **scalable** and **flexible** capacity

Intelligent **BMS** for safety and longer lifespan

Real-time battery monitoring via Deye Cloud

Auto-networking and remote firmware upgrades

Wide operating temperature range with natural cooling

IP65 protection for reliable outdoor performance



RESIDENTIAL ESS SOLUTION



Model

GB-L-Pro-Pack-4.1-2

Battery System Data

Cell Chemistry	LiFePO ₄
Module Energy (kWh)	4
Module Nominal Voltage (V)	102.4
Module Capacity (Ah)	40
Battery Module Qty in series. (Optional)	2, 3, 4, 5, 6
System Nominal Voltage (V)	204.8, 307.2, 409.6, 512, 614.4
System Operating Voltage (V)	166.4~700.8
System Energy (kWh)	8, 12, 16, 20, 24
System Usable Energy (kWh) ^[1]	8, 12, 16, 20, 24
Charge / Discharge recommend	20
Current ^[2] max	40
peak	50@2min
Working Temperature (°C)	Charge : -20 ~ 55 / Discharge : -20 ~ 55
Communication Port	CAN2.0 / RS485
Thermal Management	Natural Cooling
Recommend Depth of Discharge	100%
Cycle Life	25±2°C, 0.5C / 0.5C, 70%EOL ≥ 6000
Warranty ^[3]	10 years
Certification	CE / IEC 62619 / VDE 2510-50 / UN38.3

Other Data

Humidity	5 ~ 85%RH
Altitude (m)	≤2000
IP Rating of Enclosure	IP65
Noise (dB)	<55
Storage Temperature (°C)	0 ~ 35
Dimension (W × D × H, mm)	540 × 385 × 1100, 540 × 385 × 1320, 540 × 385 × 1540, 540 × 385 × 1760, 540 × 385 × 1980
Weight Approximate (kg)	137, 176, 215, 254, 293
Installation Location	Floor Mount

LiFePO ₄				
4				
102.4				
40				
2	3	4	5	6
204.8	307.2	409.6	512	614.4
166.4~700.8				
8	12	16	20	24
8	12	16	20	24
20				
40				
50@2min				
Charge : -20 ~ 55 / Discharge : -20 ~ 55				
CAN2.0 / RS485				
Natural Cooling				
100%				
25±2°C, 0.5C / 0.5C, 70%EOL ≥ 6000				
10 years				
CE / IEC 62619 / VDE 2510-50 / UN38.3				
5 ~ 85%RH				
≤2000				
IP65				
<55				
0 ~ 35				
540 × 385 × 1100	540 × 385 × 1320	540 × 385 × 1540	540 × 385 × 1760	540 × 385 × 1980
137	176	215	254	293
Floor Mount				

[1] DC Usable Energy, test conditions : 100% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

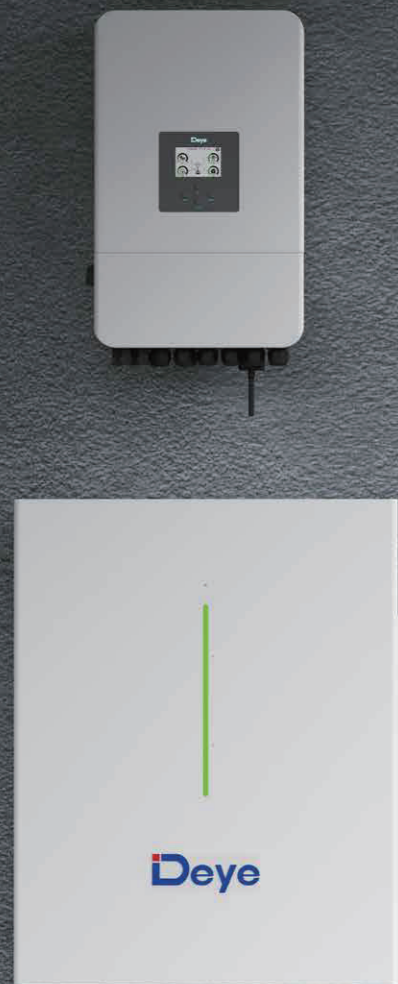
[3] The warranty is due whichever reached first of warranty period or life cycle power.

[4] Made in China

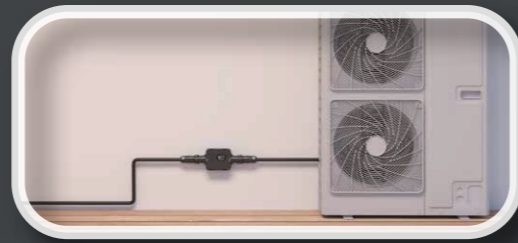


wireless energy management system

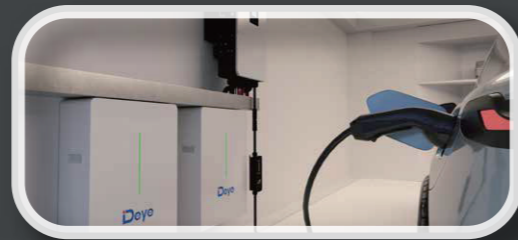
A smart load management and home automation solution based on LoRa communication



Smart Plug



Smart Switch



Smart EV Charger



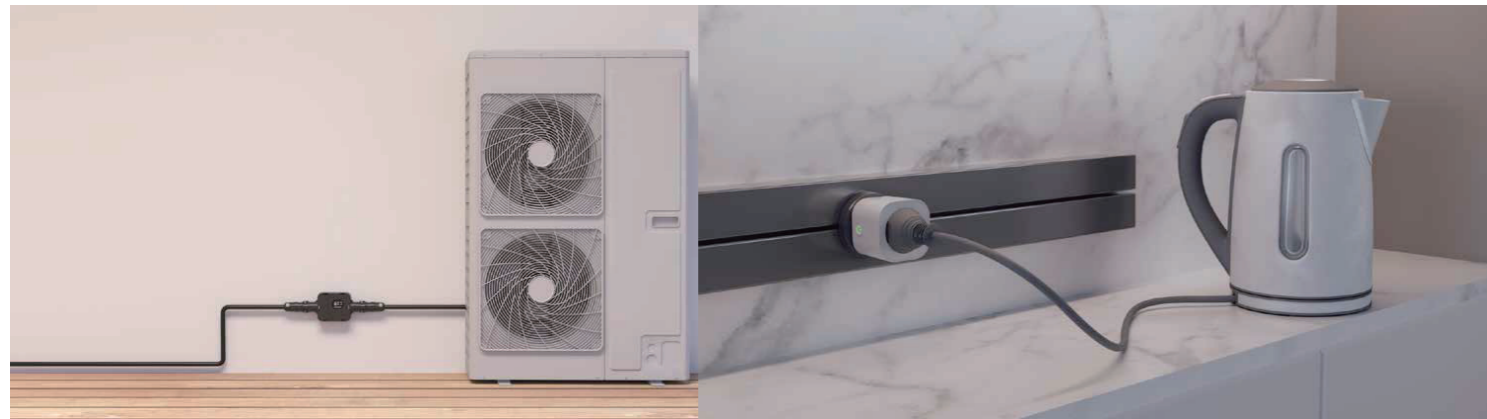
Wireless CT



Model	SUN-SMART-CT01
Electrical parameters	
Connection Type	L1/N(Single phase) L1/L2/L3/N(Three phase)
CT	Secondary current: 50mA
Operation Voltage	85~300Va.c.(L-N)
Rated Frequency/Range	50Hz(45Hz-55Hz)/60Hz(55Hz-65Hz)
Self Consumption Power	≤2W
AC voltage withstand	4KV/1min
Accuracy	
Voltage	±0.1V
Current	±0.01A
Frequency	±0.01Hz
Power	±1W
Communication and Display	
Communication Interface	Lora/RS485
Lora Communication Distance	≈200m(Barrier free)
Display	LCD
Display Data	Voltage, Current, Active power, Reactive power, Frequency, Power Factor, Energy
General Data	
Operation Temperature	-40 to +60°C
Operation Humidity	0-75%
Ingress Protection(IP) Rating	IP20
Altitude	≤4000
Mounting	DIN-Rail Mounting
Size	53x96x64mm
Weight	0.15kg
Warranty	5 Years
Certification standards	IEC/EN 61010-1

Model	SUN-SMART-TX01
Electrical Parameters	
Input Voltage	DC 5V
Communication	
Communication Model	LoRa
Communication Distance	≈200m(Barrier free)
Basic Parameters	
Operating Temperature Range	-40 to +60°C
Permissible Ambient Humidity	0-100%
Ingress Protection(IP) Rating	IP20(After installation IP65)
Allowable Altitude	≤4000
Product size(WxHxD)	137.8x31.3x31.3mm
Weight	45.8g
Warranty	2 Years
Standard	IEC/EN 62368-1
LoRa Parameters	
Frequency Range	863MHz-870MHz
Antenna	Built-in
Antenna Gain	0.56dBi

- low latency
- Supports all Deye hybrid inverters
- Easily define non-essential and critical loads
- Offline operation
- Maximize the use of solar power
- Minimize the electricity bill as much as possible
- LoRa communication
- Smart Load management
- Charging control strategy based on time and SOC



Model	SUN-SMART-SWITCH01P3
Electrical Parameters	
Voltage Range	94-238Va.c.(Phase voltage)
Connection Type	L1/N(single phase)L1/L2/L3/N(three phase)
Maximum Current	25Aa.c.(Phase current)
Frequency and Range	50Hz(45Hz-55Hz)/ 60Hz(55Hz-65Hz)
Connection	Connector plug-in type
Communication	
Communication Model	LoRa
Lora Communication Distance	≈200m(Barrier free)
Basic Parameters	
Working Temperature Range	-40 to +45°C
Allow Environmental Humidity	0-100% RH
Ingress Protection(IP) Rating	IP65
Protection level	CLASS I
Allowable altitude	≤4000m
Product size(WxHxD)	96.7x204.7x37.7mm
Weight	0.4kg
Warranty	5 Years
Standard	IEC/EN 61010-1
Lora Parameters	
Frequency Range	863MHz-870MHz
Antenna	Internal antenna
Antenna Gain	1.58dBi@868MHz

Model	SUN-SMART-PLUG01-F
Electrical Parameters	
Rated voltage	220-250Va.c.
Maximum current	16Aa.c.
Frequency and Range	50Hz(45Hz-55Hz)/60Hz(55Hz-65Hz)
Connection	Plug-type
Communication	
Communication Model	LoRa
Lora Communication Distance	≈200m(Barrier free)
Basic Parameters	
Working Temperature Range	-40 to +60°C
Ingress Protection(IP) Rating	IP20
Protection level	CLASS I
Allowable altitude	≤3000m
Product size(WxHxD)	51.2x51.2x64 mm
Weight	0.08kg
Warranty	5 Years
Standard	VDE 0620-2-1;EN 61058
LoRa	
Frequency Range	863MHz-870MHz
Antenna	Internal antenna
Antenna Gain	0.3.23dBi@868MHz

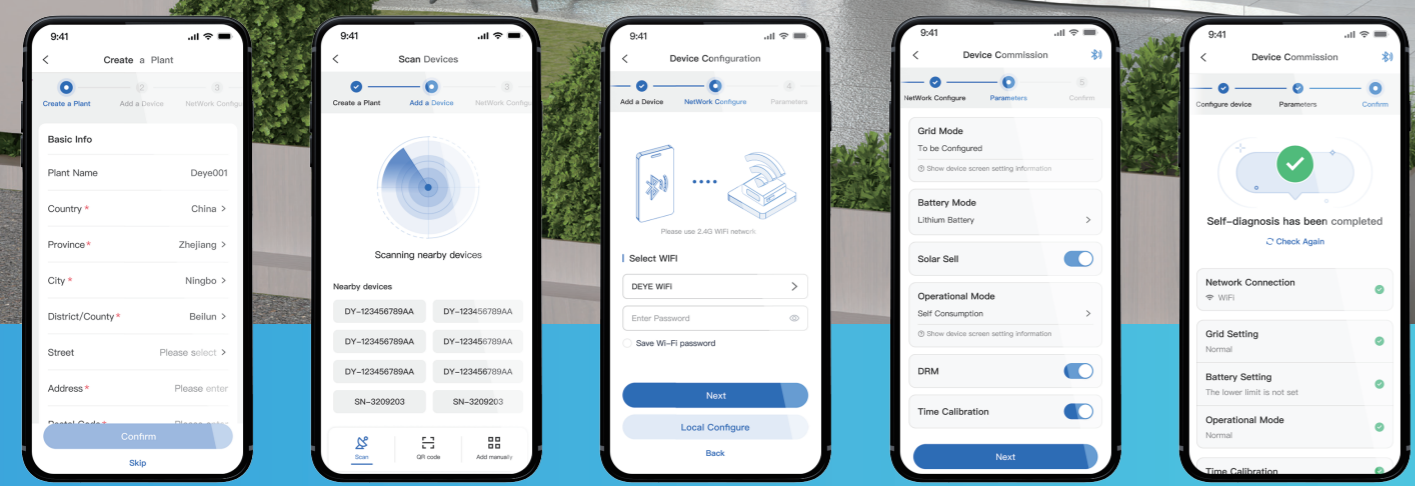


Model	SUN-EVSE11K01-AU-AC	SUN-EVSE22K01-AU-AC
Product Parameter		
Input Voltage/Range (V)	230/400	230(single phase), 230/400(three phase)
Connection Mode	3L+N+PE	L+N+PE,3L+N+PE
Input Current (A)	16	32
Input Frequency/Range	50/45-55, 60/55-65	
Maximum Output Power (kW)	11	7(single phase)/ 22(three phase)
Starting Method	Plug and Charge /Charge after Scanning/Appointment for Charging	
Equipment Protection		
Over Temperature Protection	Yes	
Low Temperature Protection	Yes	
Over Voltage Protection	Yes	
Under Voltage Protection	Yes	
Short Circuit Protection	Yes	
Over Load Protection	Yes	
Earth Fault Protection	Yes	
Leakage Current Protection	DC 6mA	
Surge Protection Level	TYPE II	
General Data		
Operating Temperature Range (°C)	-40 to +55	
Permissible Ambient Humidity	5%-95% No condensation	
Permissible Altitude (m)	≤3000	
Noise (dB)	<25	
Ingress Protection(IP) Rating	IP 66	
Cabinet Size (WxHxD mm)	104x264x57.5	
Weight (kg)	3.7	
Gun Cable Length (m)	4.2	
Number Of Charging Guns	1	
MTBF	100,000h	
Safety EMC/Standard	EN IEC 61851-1:2019, IEC 61851-1:2017, EN 300 220-2 V3.1.1:2017, EN 300 328 V2.2.2:2019, EN IEC 62311:2020 EN 301 489-1 V2.2.3:2019, EN 301 489-3 V2.3.2:2023, EN 301 489-17 V3.3.1:2024, EN IEC 61000-6-1:2019 EN IEC 61000-6-3:2021, EN IEC 61851-21-2:2021	
Interface		
Communication Mode	LoRa/Wi-Fi/BLE	

Deye Cloud - Installation Guide for Hybrid Inverter Commissioning



5-step Setup



1. Create a Plant
2. Discover Devices
3. Configure Network
4. Set Parameters
5. Confirm

Easy Step-by-Step Guide

Clear instructions take you from wiring to config, right in the app, simplifying the process.

Full Communication Checks

Scans WiFi, Bluetooth to ensure everything's linked up perfectly.

Smart Parameter Setup

The app checks and sets key settings like voltage, grid, and battery automatically, making the process faster while eliminating any chance of mistakes.

Quick and Hassle-Free

Built-in tips and tracking keeps things efficient, saving time and avoiding the need for return trips.

Deye Cloud All-in-one Energy & Device Management Platform

- Unlock Significant Savings
- Individual Add-On for Dynamic Tariff
- Intelligent Charging/Discharging Strategies
- Tailored Solution to Deye Devices
- Real-time Equipment Monitoring



Smarten Up Your Home Energy

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



All in One

Smarter home energy and device management



Cloud-edge Collaboration

Faster and more efficient control



Accelerated Connectivity

Optimized for speed and performance



Advanced Smart Energy

A smarter way to manage your electricity bills