



BEV KINNISVARA

Kingituseks päikeseenergia süsteem

Sõlmi leping enne 15.08 ja saad kingituseks
kvaliteetse päikesepaneelide ja akupanga
lahenduse koos autolaadija valmidusega.



Päikesepaneelid

*Deye 10kW HV hübriidinverter
Päikesepaneel TCL 450FB 14 tk*



Akupank

*Deye GB-L 4,09kW/h
akumoodul HV 2 tk*



Autolaadija valmidus

Kampaania kehtib kuni 15.08
võlaõiguslepingu sõlmimisel.

bev.ee/are

Deye

Tippkvaliteediga
energialahendused



PÄRNUMAA
EHITUS

Professionaalne partner
kõikides üldehitustöodes



Usaldusväärne partner
teie energiatulevikuks

Three Phase Hybrid Inverter

SUN-5/6/8/10/12/15/20/25K-SG01HP3-EU-AM2



- 100** 100% unbalanced output, each phase
-  AC couple to retrofit existing solar system
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 50** Max. charging/discharging current of 50A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

Model	SUN-5K-SG01 HP3-EU-AM2	SUN-6K-SG01 HP3-EU-AM2	SUN-8K-SG01 HP3-EU-AM2	SUN-10K-SG01 HP3-EU-AM2	SUN-12K-SG01 HP3-EU-AM2	SUN-15K-SG01 HP3-EU-AM2	SUN-20K-SG01 HP3-EU-AM2	SUN-25K-SG01 HP3-EU-AM2
Battery Input Data								
Battery Type	Lithium-ion							
Battery Voltage Range (V)	160-700							
Max. Charging Current (A)	30	30	37					50
Max. Discharging Current (A)	30	30	37					50
Charging Strategy for Li-ion Battery	Self-adaption to BMS							
Number of Battery Input	1							
PV String Input Data								
Max. PV Input Power (W)	6500	7800	10400	13000	15600	19500	26000	32500
Max. PV Input Voltage (V)	1000							
Start-up Voltage (V)	180							
MPPT Voltage Range (V)	150-850							
Rated PV Input Voltage (V)	600							700
Max. Operating PV Input Current (A)	20+20				26+20		26+26	
Max. Input Short-Circuit Current (A)	30+30				39+30		39+39	
No. of MPP Trackers/ No. of Strings per MPP Tracker	2/1+1				2/2+1		2/2+2	
AC Input/Output Data								
Rated AC Input/Output Active Power (W)	5000	6000	8000	10000	12000	15000	20000	25000
Max. AC Input/Output Apparent Power (VA)	5500	6600	8800	11000	13200	16500	22000	27500
Rated AC Input/Output Current (A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	30.4/29	37.9/36.3
Max. AC Input/Output Current (A)	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2	25/24	33.4/31.9	41.7/39.9
Max. Continuous AC Passthrough (grid to load) (A)	40				80			
Peak Power (off-grid) (W)	1.5 times of rated power, 10s							
Power Factor Adjustment Range	0.8 leading to 0.8 lagging							
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un							
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65							
Grid Connection Form	3L+N+PE							
Total Current Harmonic Distortion THDi	<3% (of nominal power)							
DC Injection Current	<0.5% In							
Efficiency								
Max. Efficiency	97.6%							
Euro Efficiency	97.0%							
MPPT Efficiency	>99%							
Equipment Protection								
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level							
Surge Protection Level	TYPE II(DC), TYPE II(AC)							
Interface								
Communication Interface	RS485/RS232/CAN							
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)							
General Data								
Operating Temperature Range ()	-40 to +60℃, >45℃ Derating							
Permissible Ambient Humidity	0-100%							
Permissible Altitude	2000m							
Noise (dB)	≤55							
Ingress Protection(IP) Rating	IP 65							
Inverter Topology	Non-Isolated							
Over Voltage Category	OVC II(DC), OVC III(AC)							
Cabinet Size (WxHxD mm)	408×638×237 (Excluding Connectors and Brackets)							
Weight (kg)	30.5							
Type of Cooling	Natural 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							
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105							
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							

Deye Residential ESS Solution

Deye GB-L-PRO



◆ Safety

Built in explosion relief device to dredge gas, and built in fire protection device to cut off the fire source for 3 seconds.

◆ High-voltage stack

Modules are connected in series without cable connection, and highvoltage 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.

◆ Environmental friendliness

IP protection grade 65, anti-corrosion grade $\geq C2$, environmental protection battery.

◆ Intelligent and visual

Support remote upgrade, real-time battery warning information push, LCD data display.

Technical Data

Deye GB-L-PRO



Main Parameter

Cell Chemistry	LiFePO ₄				
Module model	GB-L-PACK 4.0				
Module Energy (kWh)	4				
Module Nominal Voltage (V)	102.4				
Module Capacity (Ah)	40				
Battery system model	GB-L8 PRO	GB-L12 PRO	GB-L16 PRO	GB-L20 PRO	GB-L24 PRO
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				
System Energy (kWh)	8	12	16	20	24
System Usable Energy (kWh) ¹	7.2	10.8	14.4	18	21.6
Charge / Discharge ² Current (A)	Recommend				
	Nominal				
	Peak Discharge (2 mins, 25°C)				
Working Temperature (°C)	Charge : -10 ~ 55 / Discharge : -20 ~ 55				
LCD Display	SOC%, Power, Total Voltage				
Communication Port	CAN2.0, RS485				
Humidity	5% ~ 90%				
Altitude	≤2000m				
IP Rating of Enclosure	IP65				
Storage Temperature (°C)	0 ~ 35				
Dimension (W × D × H, mm)	540 × 385 × 650	540 × 385 × 870	540 × 385 × 1090	540 × 385 × 1310	540 × 385 × 1530
Weight (kg)	97	136	175	214	253
Installation Location	Floor Mount				
Recommend Depth of Discharge	0.9				
Cycle Life	25±2°C , 0.5C / 0.5C, EOL70%≥6000				
Warranty ³	10 years				
Certification	CE / IEC62619 / VDE 2510-50 / UN38.3				

1. DC Usable Energy, test conditions : 90% 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.

System Components



Deye GB-L-PRO

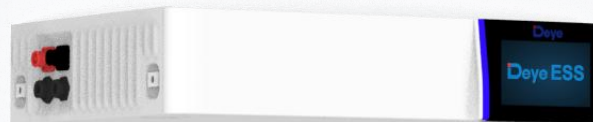
RW-M5

GB-LBS-PRO

High voltage battery cluster control box

Operating Voltage
Nominal Charge / Discharge Current
Max Charge / Discharge Current
Operating Temperature Range
Ingress Protection
Dimension (W × D × H)
Weight Approximate

120 ~ 750Vdc
40A
50A
-20 ~ 65°C
IP65
540 × 385 × 110mm
12kg



GB-LM4.0-PRO

4 kWh battery module

Battery Type
Nominal Voltage
Rated Capacity
Rated Energy
Nominal Charge/Discharge Current
Peak Discharge Current
Charge Temperature
Discharge Temperature
Storage Temperature
Ingress Protection
Dimension (W × D × H)
Weight Approximate

LiFePO₄ (LFP)
102.4Vdc
40Ah
4kWh
40A
50A
0~55°C
-20°C~55°C
0°C~35°C
IP65
540 × 385 × 220mm
40.5kg



GB-LBase

Battery module base

Dimension (W × D × H)
Weight Approximate

540 × 385 × 100mm
7kg



ECOM Cable2.0

Standard 2-meter communication cable connected to the external device



EPCable2.0

Standard 2-meter power cable connected to the positive pole of the external PCS

1000V/6AWG Cable



ENCable2.0

Standard 2-meter power cable connected to the negative pole of the external PCS

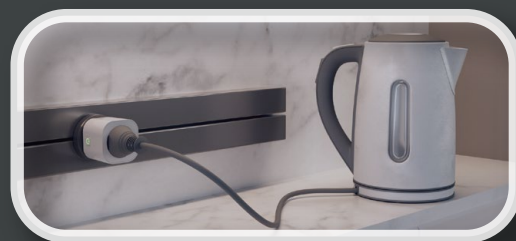
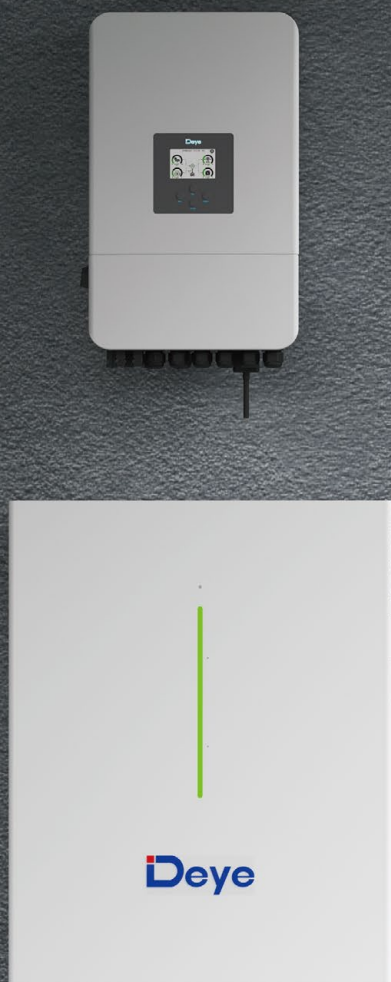
1000V/6AWG Cable



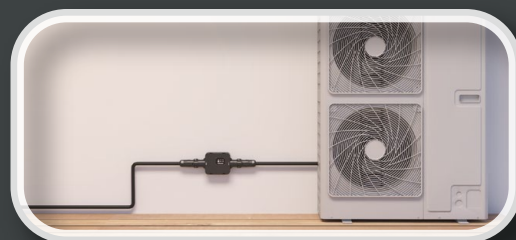


wireless energy management system

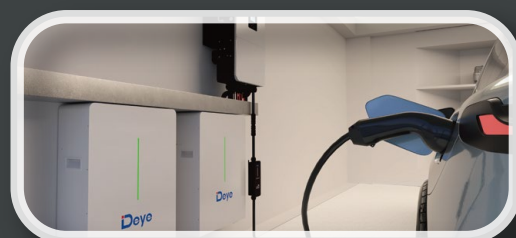
A smart load management and home automation solution based on LoRa communication



Smart Plug



Smart Switch



Smart EV Charger



Wireless CT

 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

Deye

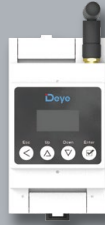
wireless energy management system

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

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.



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



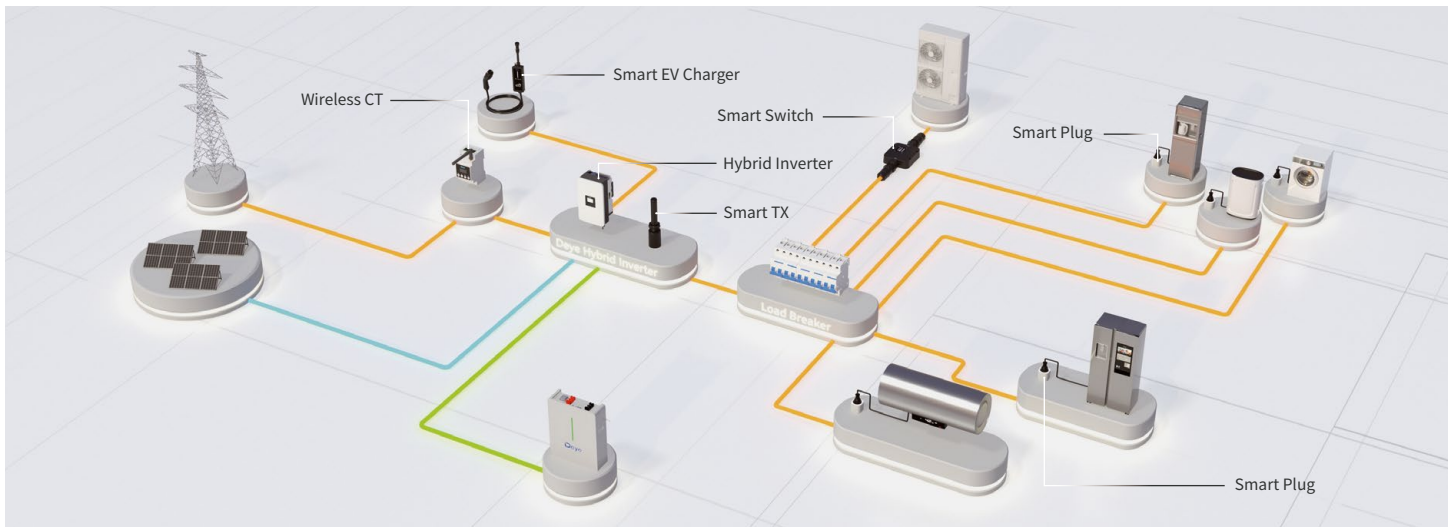
Deye Smart Plug can be easily installed in any standard socket, instantly upgrading the appliance plugged in to a smart device.



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.



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.



Why choose LoRa communication solutions?

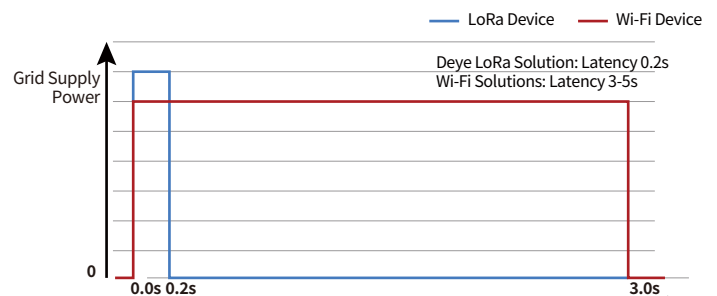
LoRa devices have shorter wake-up times and lower communication latency, ensuring instant response.

In comparison, Wi-Fi devices typically take longer to wake up and may experience longer communication latency due to routing data and commands through the cloud platform.

Excessive latency makes it difficult for household energy systems to maintain stable operation.

If the Internet is not available, the Wi-Fi device may not be able to communicate with the server. But Deye's IoT devices communicate via LoRa protocol, so these devices can continue to conduct local commands.

Zero-Export Function Response Time Diagram



Comparison of Response Times for CTs Based on LoRa Communication vs. WiFi Communication

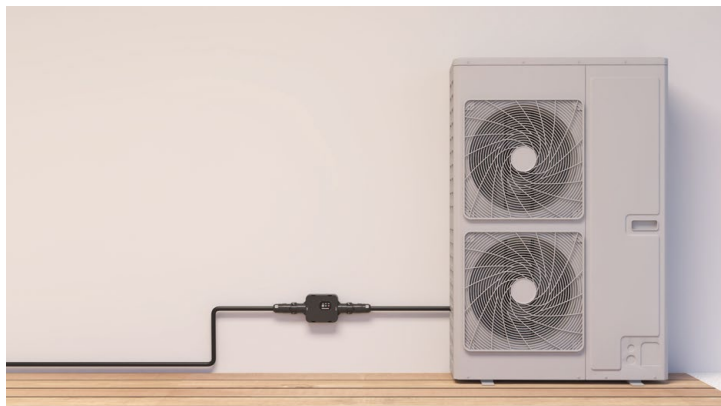


Model	SUN-SMART-CT01
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Electrical parameters	
Connection Type	L1/N(Single phase) , L1/L2/L3/N(Three phase)
CT	Secondary current: 50mA
Operation Voltage	85~300V.a.c.(L-N)
Rated Frequency/Range	50Hz(45Hz-55Hz)/60Hz(55Hz-65Hz)
Self Consumption Power	≤2W
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
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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

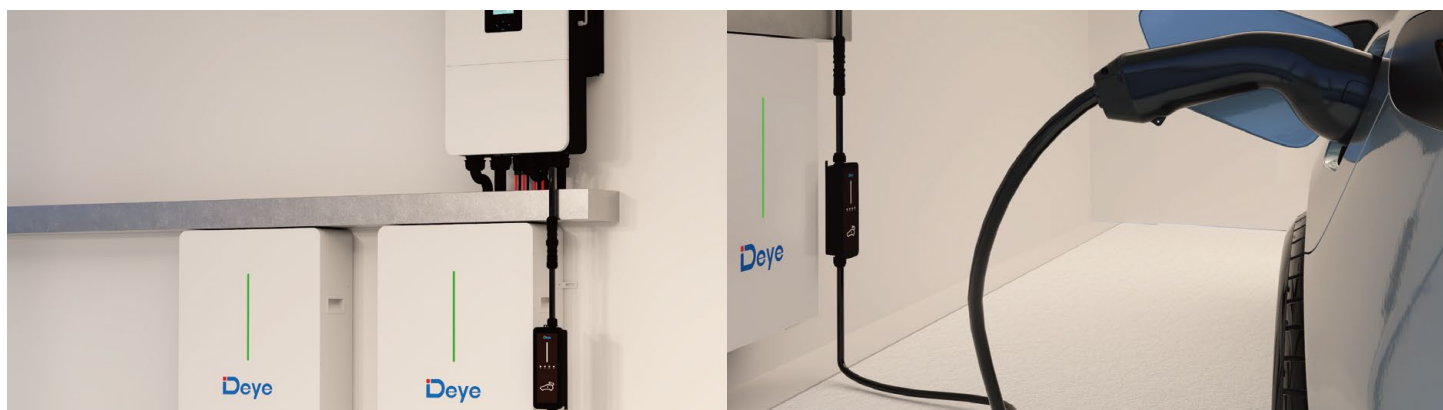


Model	SUN-SMART-SWITCH01P3
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Electrical Parameters	
Voltage Range	94-238Va.c.(Phase voltage)
Connection Type	L1/N(single phase), L1/L2/L3/N(three phase)
Maximum Current	25Aa.c.(Phase current)
Frequency and Range	50Hz(45Hz-55Hz)/ 60Hz(55Hz-65Hz)
Connection	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-PLUG01P1-F
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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)	51.2x51.2x64mm
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-EU-AC	SUN-EVSE22K01-EU-AC
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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	



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Deye Inverter

