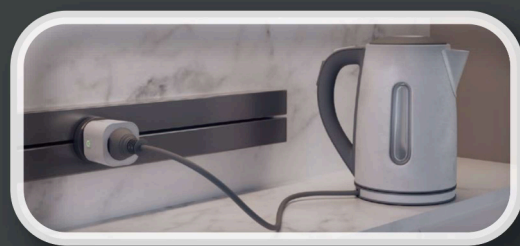
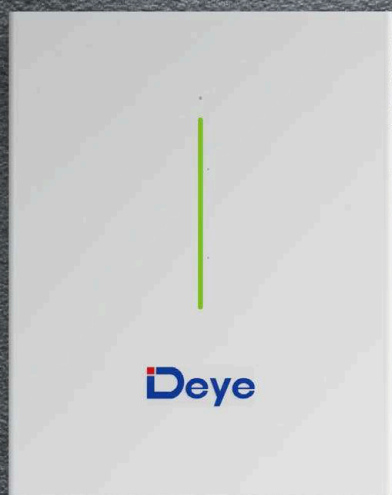


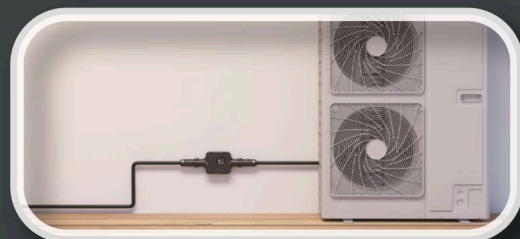


wireless energy management system

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.



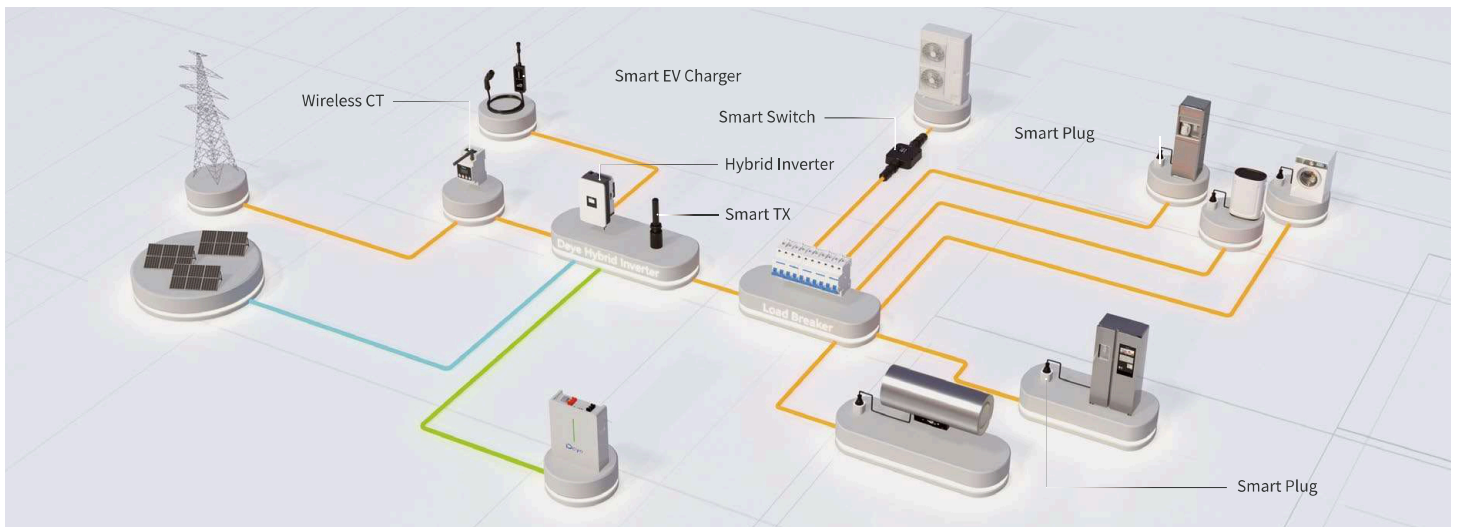
Deye Smart Plug can be easily installed in any standard socket, instantly upgrading the appliance plugged in to a smart device.



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?

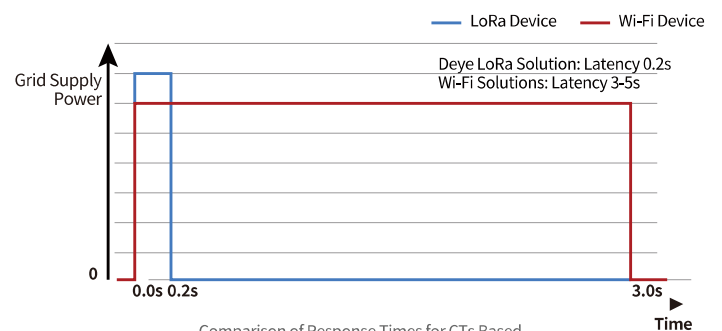
LoRa devices have shorter wake-up times and lower communication latency, ensuring instant response.

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





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

