

Plant Controller / Plant Monitor

The **Plant Controller and Plant Monitor** offer a powerful and flexible solution for monitoring and managing different types of energy systems. Both devices share the same robust and reliable hardware, designed for long-term performance in demanding environments.

The **Plant Controller** is our top-tier product, enabling **advanced control** of on-site devices, seamless integration of multiple inverters, and support for a wide range of sensors and actuators. With our cutting-edge EcoPhi Energy Management System (EMS), it allows for intelligent energy optimization, peak load reduction, and dynamic tariff integration—ensuring maximum efficiency.

The **Plant Monitor** provides the same high-quality monitoring capabilities but **without active control functions**. It is ideal for real-time data insights and comprehensive system analysis without direct intervention.

Both solutions offer unlimited system scalability and full compatibility with various inverters, batteries, generators, EV chargers, and additional sensors. By selecting the right combination of components, nearly all energy management use cases can be covered.



Benefits

- ✓ Easy to install box
- ✓ Interactive digital display
- ✓ Wide range of sensors
- ✓ Complex on site control (only with Plant Controller)
- ✓ Remote and On-Site control
- ✓ Local data storage
- ✓ Individual functions and logics

Ideal for

- ☘ PV systems above 250kW or when several components and sensors need to be integrated.
- ☘ Large scale water systems. Complex system with many components, multiple distributed systems.
- ☘ On-site and remote control functions for devices such as batteries, gensets, EV chargers etc.



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Technical Specifications

Interfaces and connections

RS232 interface	1
RS485 interface	2
Ethernet interface	1
No. of inverter, controller, genset connections	128
No. of different inverter, controller, genset types	3
Sensor connections	✓
Analog sensors	4
Digital sensors	8 (Total Digital + Pulse)
Pulse sensors	8 (Total Digital + Pulse)
Sensor extension box connection	✓
Bluetooth connection	✓

Data transfer

WiFi	2.4 GHz Antenna
GSM	✓(2G, 3G,4G) 5dBi
LAN	✓
Data transfer after connection losses	✓

Control and logic

On-site logic circuits	✓
Remote control of inverters	✓
No. of relays	6
Remote control of relays	✓
Edge calculations	✓

Data storage

SD card	✓ up to 32 GB
Local data storage	✓ 8 Days (4MB)

Power Supply

External power supply	12 - 30V DC, 100-250V AC
Power supply directly from inverter connection	✓
Backup power	2 Ah

Box setup

Setup software	✓
Change EcoPhi Box setting via Platform	✓
Change EcoPhi Box setting via SMS	✓

More

On-site Alarms	✓
SMS Alarms	✓
On-site Display	✓
Camera connection	✓
Dimensions (Height, width, depth)	250 x 350 x 150 mm
Weight	2.1 Kg