ECpv

Datasheet

Overview

Is the **EN**combi plug and play controller for decentralized PV plants with or without gensets. Pick any interface protocol from our list of supported interfaces and connect - it is that easy!

Connect with inverters, controllers and power meters via RS-485 or TCP/IP and have full control of your grid export / self-consumption and safely run your gensets while saving fuel in hybrid plants

Setup and monitoring is easily done via the built-in webserver, **EC**web, describing every step of the setup and providing you with a wide range of monitoring and reports - run it on your PC or on mobile devices. With the **EC**logic feature, you can program custom logics - a simple and powerful tool.

Use the **EC**cloud remote monitoring system web app for live and historical data visualization and analysis or your PV and PV-Genset plants. You can try it out for a full 90 days free of charge when purchasing any **EC**pv variant.

Variants

The **EC**pv comes in the following five variants all running on the same HW.

Capacity

Function \ Variant	Logger	Solar	S	M	L
32 inverters	●	●	●	●	●
16 gensets	●	●	●	●	●
16 grid connections	●	●	●	●	●
16 PV feed in points	●	●	●	●	●
Stacking support for >32 inverter PV plants		●	●	●	●

Control

Function \ Variant	Logger	Solar	S	M	L
EClogic	●	●	●	●	●
Active power control of PV plant		●	●	●	●
Reactive power control of PV plant		●	●	●	●
Self consumption unlimited PV plant capacity		*	*	*	*
PV/Diesel up to 100kWp PV plant			●	●	●
PV/Diesel up to 500kWp PV plant				●	●
PV/Diesel unlimited PV plant capacity					*
Genset Management			●	●	●

* Limited by the maximum amount of inverters supported only

Monitoring

Function \ Variant	Logger	Solar	S	M	L
ECweb	●	●	●	●	●
ECpanel	*	*	*	*	*
ECcloud - 90 days free trial	●	●	●	●	●
ECcloud	*	*	*	*	*

* Accessories

Communication

Function \ Variant	Logger	Solar	S	M	L
PV inverters via Modbus RTU or TCP	●	●	●	●	●
Power meters via Modbus RTU or TCP	●	●	●	●	●
Genset controllers via Modbus RTU or TCP	●	●	●	●	●
Sensors via Modbus RTU	●	●	●	●	●
Modbus TCP server	●	●	●	●	●
Modbus RTU slave	*	*	*	*	*

* On RS485 serial port not used for inverter, power meter, genset controller or sensor comm.

Logs and notifications

Function \ Variant	Logger	Solar	S	M	L
Lifetime event log on USB or SD-card	●	●	●	●	●
Summary logs on USB or SD-card	●	●	●	●	●
Production (time series data) logs on USB or SD-card	●	●	●	●	●
Alarm notification via email	●	●	●	●	●
Logs via email or ftp	●	●	●	●	●

HW Specifications

The hardware is a high quality, fast and extremely compact and DIN rail mounted unit allowing you to fit it into almost any electrical cabinet at your site when doing brown field projects - or as a part of our **EC**cube offering.

Ethernet	1 x RJ45 - 10/100Mbs
RS485	2 x isolated fieldbus (master/slave)
Memory	16GB SD card included
Power supply	24Vdc ±15% / 250mA max
Operating Temperature	-20°C to +70°C
Mounting	DIN rail
Dimension	107 x 22.5 x 119 mm (H x W x D)
Weight	About 200g

For more information visit:

www.encombi.com

Encombi ApS. Holstebrovej 75, 8800 Viborg. Denmark. www.encombi.com