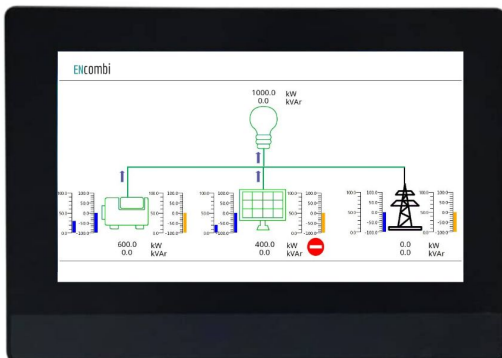# ECpanel 7

Overview

ECpanel 7 is the ENcombi plug and play HMI operator control and monitoring interface. Connect with any of the ECpv variants right out of the box. No need for you to do any customization or application design - all has been made ready for you.

Appearance

Main Features

- Plant start/stop
- Plant overview
- Individual overview pages for
  - Solar inverters
  - Power meters
  - Genset Controller
- 24h trend curves for
  - Power
  - Load
  - Plane of array
  - Power references
- 365 days of historical data logged on SD card in CSV format
- 100.000 Events and alarm log

The hardware is a high quality, fast and cost-efficient unit which you can build into your own cabinet - or as a part of our **ECcube** offering.

Should you wish to receive a screen in a different size or with different functionality - **contact us** for an offer for a customized screen.

Variants

ECpanel 7: 7" HMI touch interface

ECpanel X: Customized screens on request

Specifications

Hardware parameter	Display	7" 16:9 TFT LCD
	Resolution(WxH)	1024×600
	Colors	24-bit
	Brightness	450 cd/m²
	Backlight	LED
	LCD Life	50000 hours
	Touch Panel	4 wires resistive touch screen
	CPU	600MHz ARM Cortex-A8
	Memory	128M Flash + 128M DDR3
	RTC	Built in
	Ethernet	1 way 10M/100M adaptive
	SD card Port	Available
	USB Port	USB Slave 2.0 port*1,USB Host 2.0 port*1
	Download Project	USB Slave/U disk / Ethernet
	COM Port	COM1/COM3:RS232/RS485/RS422 COM2:RS485
	LCD viewing angle (T/B/L/R)	85'/85'/85'/85'
Electrical Specifications	Power Consumption	< 10W
	Input Power	DC24V, working range DC 9V~28V
	Power Protection	Protected from thunderstrike and surging
	Power Down Allowed	< 5mS
	CE & RoHS	Complied with EN61000-6-2:2005, EN61000-6-4:2007, RoHS, Surge Immunity: ± 1KV, EFT: ± 2KV,ESD:4KV, Air:8KV
Environmental Specifications	Operating Temperature	0~50℃
	Storage Temperature	-20~60℃
	Anti-UV	Not suitable to work in strong ultraviolet light (such as direct sunlight)
	Operating Humidity	10~90%RH（no condensate）
	Vibration Endurance	10~25Hz（X,Y,Z direction 2G/30 minutes）
	Cooling	Natural air cooling
Mechanical index	Degree of Protection	Front IP65(with NEMA panel),Back IP20
	Enclosure	Engineering plastic
	Panel Cutout	192mm×138mm
	Dimension	204mm×145mm×33.8mm
	Weight	About 560g