

SmartDisplay

Display systems for
PV plants



OVERVIEW

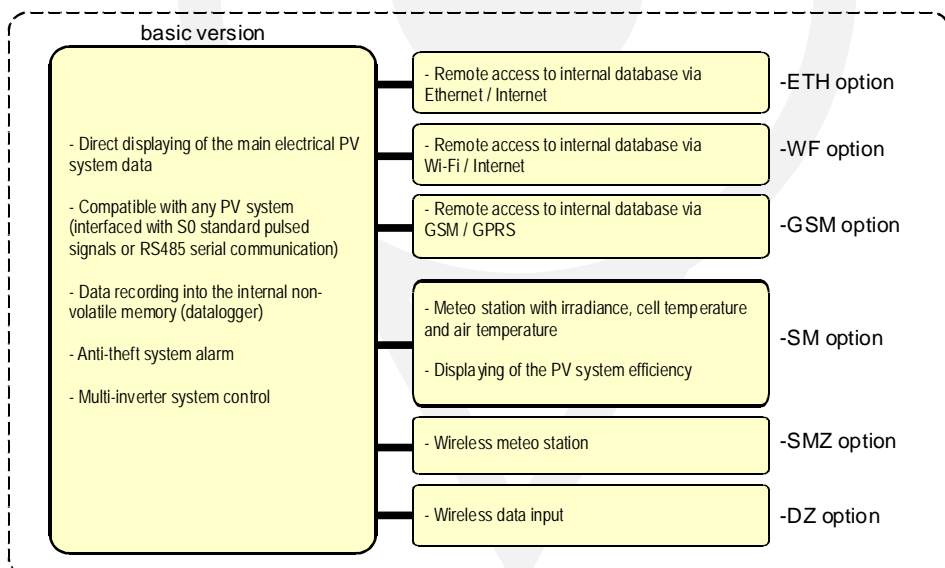
The SmartDisplay products are a family of smart giant displays, characterized by the presence in a single device also features of advanced datalogging, alarm and remote control. Each unit can be easily applied to an existing PV system without additional accessories.



SD03

The production data are automatically read from the energy meter or via serial interface directly from the PV inverters⁽¹⁾.

Each unit is also able to receive both production and weather data wirelessly and can be interrogated remotely via GSM, Ethernet or Wi-Fi.

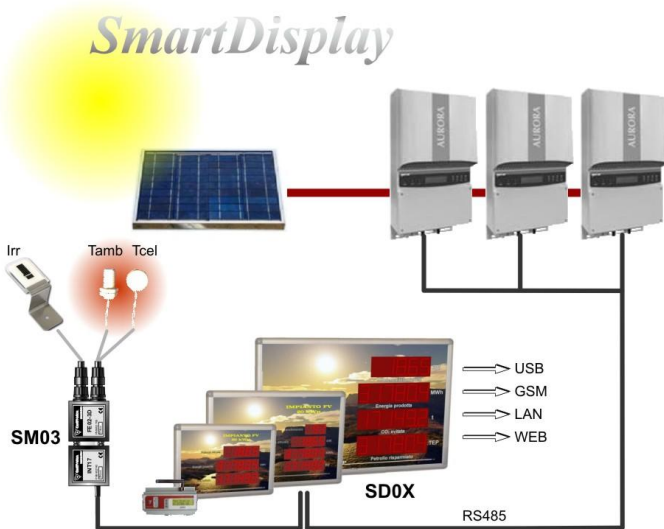


(1) Note: the list of inverters supported by the SmartDisplay family is under upgrading, see the website for the latest version.

Accessories:



Electrical data can be read optically from the standard energy counter and sent to a SmartDisplay unit through a wireless link.



For the measurement of environmental variables is available the meteo station SM03, interfaceable to the display via RS485.



The PV system data can conveniently be displayed on your mobile phone through the Wi-Fi interface.



Technical specifications

METEO DATA INPUT

RS485 interface or ZigBee wireless link

POWER AND ENERGY DATA INPUT

Standard pulse interface (S0 DIN 43864 / class A IEC 62053-31) or RS232/485 interface or ZigBee wireless link

DISPLAY

LED 7 segment, 57 mm digit height, ~30 m visibility (SD01/02)

LCD, 7 mm digit height (SD03)

LED discrete, 120 mm digit height, ~60 m visibility (SD04)

LINES NUMBER

From 1 to 3 (SD01)

From 1 to 8 (SD02)

2 (SD03)

From 1 to 4 (SD04)

NUMBER OF CHARACTERS PER LINE

Selectable from 3 to 6 (SD01/02/04)

16 (SD03)

POWER SUPPLY

12 Vdc (10.8...13.2 Vdc)

20 mA (typ. central unit)

100...450 mA (for each line depending on brightness, SD01/02)

100...600 mA (for each line depending on brightness, SD04)

BRIGHTNESS ADJUSTMENT

Pre-selectable via software or automatically set according to the environmental light (SD01/02/04)

TEMPERATURE RANGE

-10...55°C operative (RH max 85% at 25°C)

-20...60°C storage

DEGREE OF PROTECTION

IP54 (SD01/02/04)

IP20 (SD03)

DIMENSIONS

666 mm x 466 mm x 38 mm (SD01)

966 mm x 666 mm x 38 mm (SD02)

157 mm x 90 mm x 60 mm (SD03)

1416 mm x 966 mm x 38 mm (SD04)

MECHANICAL STRUCTURE

Aluminum with anti-glare front acrylic (SD01/02/04)

PC/PPO modular 9U for DIN EN 50022 (SD03)

WEIGHT

~6 kg (SD01)

~9 kg (SD02)

~200 g (SD03)

~18 kg (SD04)

Under a policy of continuous improvement, OptiVeloX reserves the right to make unannounced changes to the specifications of the products described in this document.

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