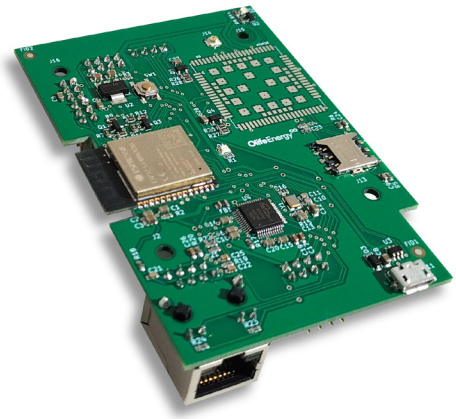
OlifeEnergy SolarModule



OlifeEnergy SolarModule is extension module for all models of OlifeEnergy AC chargers which enables direct communication with selected photovoltaic inverters.

The communication with photovoltaic inverter is secured by Modbus TCP protocol, using local network Wi-Fi or Ethernet connection. The connection with photovoltaic inverter allows efficient usage and distribution of harvested solar energy. The SolarModule also provides monitoring and management of the charging station over local network. For OlifeEnergy AC and OlifeEnergy DoubleBox chargers the expansion set (SDBPX) is required for installation of the SolarModule. The SolarModule can not be used with “Cloud” version of OlifeEnergy charging stations.

SPECIFICATIONS

Ordering code	SLBPW
Expansion set for DoubleBox and AC stations	SDBPX
Application	OlifeEnergy WallBox, OlifeEnergy DoubleBox, OlifeEnergy AC
Supported PV inverters (ModBus TCP)	GoodWe (ET series), SOLAX, Huawei (SUN2000), SOFAR
Supported features	Circuit-Breaker tripping protection, charging from PV excess power
Input voltage	5 V
Self-consumption	Max. 5 W
Communication	Wi-Fi (802.11 b/g/n), Ethernet (RJ-45)
Control	OlifeEnergy smartphone application (Android, iOS)

SMARTMETER IS NO LONGER REQUIRED

Because SolarModule collects necessary data from the photovoltaic inverter directly, no charger-specific Smartmeter or Wattmeter is required. If you need circtuit-breaker tripping protection of if you want to charge from the photovoltaics excess efficiently, the solar module is the easiest and the most efficient way how to reach it.

CHARGING MODES

Circuit-breaker protection – maximum charging speed

By monitoring total consumption in the electrical installation, the EV charger can reach maximum charging speed without risk of main circuit-breaker tripping. When the energy consumption of the building rises the charging speed of the electric vehicle is decreased. When the consumption of the building decreases to normal again, or for example when photovoltaic production increases, the charging speed of the electric vehicle is increased as well. If there is no power available for EV charging, the charging can be paused.

Photovoltaic EV charging – maximum efficiency

With OlifeEnergy SolarModule you can adjust the charging speed based on State of Charge of the PV system storage and the load of the solar inverter. By that it is possible to use only the energy produced by photovoltaic system which brings you maximum savings. You can even set the minimum SOC level of the battery on which you want to stop the EV charging, keeping the energy stored in home battery for evening or next day. By this approach the charging of the EV is delayed to next day solar production, not using the grid power at all.

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