

SOLHYBRID

This hybrid device is a DC charge controller and solar inverter in one, offering grid parallel, off-grid and battery parallel operation. In addition, all energy sources can be used simultaneously. Switching to different power sources belong to the past.



Energy production from PV

- High efficiency and modularity
- Dual MPP-tracker technology
- Integrated booster (for module voltages > 80V)
- Compact design

Energy management for more self-sufficiency

- Control center, data processing and data logging
- Internal and external CAN-Bus communication
- Adjustable grid feed-in
- Controllable consumers

Battery charger (DC/DC)

- Stores PV-energy directly in the battery
- Fast CAN communication with BMS
- Stable and monitored charging and discharging
- Rated power for charging / discharging (DC/DC): 2.5 kW, peak up to 4 kW



Technical Data

Energymanager SolHybrid 5.0 P1

Input DC

Max. recommended power	4800 W
Input DC voltage range	80-500 V
Rated input voltage	350 V
MPP range	80-400 V
Max. input current	10.5 A
Number of MPP-trackers	2

Output AC

Nominal AC power	4000 W
Max. power AC	4400 W
AC voltage range	207-253 V
Nominal output voltage	230 V
Max. output current	18 A
Internal consumption at night	0.01 W
Rated frequency	50/60 Hz
Frequency range	45-65 Hz
cos Φ	-0.8~+0.8

Rated power factor	> 0.99
Max. efficiency / Euro ETA	97.5 / 97.0 %
Offgrid and back up functionality	√/√
Grid compatibility	TN/TT

DC/DC

Charge / Discharge power	2500 W
Max. power	4000 W
Battery voltage range	35-60 V
Nominal voltage	48 V
Battery current range / Max. battery current	50/80 A
Efficiency	97.4 %

Degree of protection	IP 65
Warranty	3 years, prolongable

