



SINGLE PHASE AC COUPLER

**SOWAVE SERIES
3.6-6kW**

Description

The Solenso AC Coupler (3.6kW-6kW) is a versatile solution compatible with single-phase systems, satisfying the needs of storage for the system already existed the SG series microinverters.

Smart energy storage solution, equipped with Grid Former function, activates the SG series microinverters in off-grid environments, improving the utilization rate of PV panels.

Key features include grid former, a charge and discharge efficiency of 97.6%, integrated Wi-Fi monitoring, and remote parameter settings. With a protection level of IP65, it is water and dust resistant, ensuring reliable performance in various environments.

Features



GRID FORMER

Activate SG series microinverters in off-grid environment.



SAFETY

Proven Safety.



SMART

Smart EMS/BMS.



SMART CONTROL

Various storage modes can be chosen on Solenso monitoring application.



SEAMLESSLY SWITCH

Seamlessly Switch Time between EPS with Grid.



UNIBODY

One-piece Aluminum Housing.

Technical Specifications

| Model | SoWave-SL3.6 | SoWave-SL4.6 | SoWave-SL5 | SoWave-SL6 |
|------------------------------------|---|--------------|------------|------------|
| Battery Port | | | | |
| Max. Charge/Discharge Power (kW) | 3.6 | 4.6 | 5.0 | 6.0 |
| Max. Charge/Discharge Current (A) | 80 | 120 | 120 | 120 |
| Battery Normal Voltage (V) | 120 | | | |
| Battery Voltage Range (V) | 40-60 | | | |
| Battery Type | Li-ion/lead-acid etc. | | | |
| MI port (micro inverter) | | | | |
| Max Continuous Current (A) | 32A | | | |
| Nominal INT Voltage L-N (V) | 220V/230V | | | |
| Nominal INT Frequency (Hz) | 50Hz/60Hz | | | |
| AC Grid | | | | |
| Max Continuous Current (A) | 17.0 | 22.0 | 23.0 | 28.0 |
| Max Continuous Power (kVA) | 3.6 | 4.6 | 5.0 | 6.0 |
| Nominal Grid Current (A) | 16.4/15.7 | 21.0/20.0 | 22.8/21.8 | 27.3/26.1 |
| Nominal Grid Voltage (V) | 198 to 242 @ 220 / 207 to 253 @ 230 | | | |
| Nominal Grid Frequency (Hz) | 50/60 | | | |
| Power Factor | 0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited) | | | |
| Current THD (%) | <3 | | | |
| AC Load Output | | | | |
| Max Continuous Current (A) | 17.0 | 22.0 | 23.0 | 28.0 |
| Max Continuous Power (kVA) | 3.6 | 4.6 | 5.0 | 6.0 |
| Max Peak Current (A) (10min) | 24.6/23.5 | 31.4/30.0 | 34.1/32.7 | 41.0/39.2 |
| Max Peak Power (kVA) (10min) | 5.4 | 6.9 | 7.5 | 9.0 |
| Nominal Ac Voltage L-N (V) | 220 / 230 | | | |
| Nominal AC Frequency (Hz) | 50/60 | | | |
| Switching Time (ms) | Seamless | | | |
| Voltage THD (%) | <3 | | | |
| Efficiency | | | | |
| Max. Efficiency (%) | 97.6 | | | |
| Bat. between AC Efficiency (%) | 96.8 | | | |
| Protection | | | | |
| Over Current/Voltage Protection | Yes | | | |
| Anti-Islanding Protection | Yes | | | |
| AC Short Circuit Protection | Yes | | | |
| Residual Current Detection | Yes | | | |
| Ground Fault Monitoring | Yes | | | |
| Insulation Resister Detection | Yes | | | |
| Enclosure Protect Level | IP65/NEMA4X | | | |
| General Data | | | | |
| Dimensions (W*H*D, mm) | 370*535*192 | | | |
| Weight (kg) | 18.5 | | 20.5 | |
| Topology | Tranformerless | | | |
| Cooling | Intelligent Fan | | | |
| Relative Humidity | 0-100 % | | | |
| Operating Temperature Range (°C) | -25 to 60 | | | |
| Operating Altitude (m) | <4000 | | | |
| Standby Consumption (W) | <10 | | | |
| Mounting | Wall Bracket | | | |
| Communication with RSD | SUNSPEC | | | |
| Display & Communication Interfaces | LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G | | | |
| Certifications | | | | |
| Certification | IEC62109-1, IEC62109-2 | | | |
| Approvals | EN50549-1, EN50549-10, C10/C11, NA/EEA-NE7-CH2020 | | | |
| EMC | EN61000-6-2, EN61000-6-3 | | | |