SUNNY BOY 1300TL / 1600TL / 2100TL

Small inverters with big results

Combining a broad input voltage range and a broad input current range, the transformerless Sunny Boy can be connected to nearly all standard crystalline PV modules. As a proven entry-level device in the field of transformerless inverters, it offers top-class efficiency. Its low weight and robust enclosure allow simple installation, both indoors and outdoors. With its three power classes, it is the ideal inverter for smaller PV plants.
## Technical data

### Input (DC)
- Max. DC power (@ \( \cos \varphi = 1 \))
- Max. input voltage
- MPP voltage range
- Rated input voltage
- Min. input voltage / initial input voltage
- Max. input current / max. input current per string
- Number of independent MPP inputs / strings per MPP input

### Output (AC)
- Rated power (@ 230 V, 50 Hz)
- Max. apparent AC power
- Nominal AC voltage / range
- AC power frequency / range
- Rated power frequency / rated grid voltage
- Max. output current
- Power factor at rated power
- Feed-in phases / connection phases

### Efficiency
- Max. efficiency / European weighted efficiency
- DC disconnect device
- Ground fault monitoring / grid monitoring
- DC reverse polarity protection / AC short-circuit current capability / galvanically isolated
- Protection class (according to IEC 62103) / overvoltage category
- General data
- Dimensions (W / H / D)
- Weight
- Operating temperature range
- Noise emission (typical)
- Self-consumption (night)
- Topology
- Cooling concept
- Degree of protection (according to IEC 60529)
- Climatic category (according to IEC 60721-3-4)
- Max. permissible value for relative humidity (non-condensing)

### Features
- DC connection / AC connection
- Display
- Interface: RS485, Bluetooth\textsuperscript{®}, Speedwire/Webconnect
- Warranty: 5 / 10 / 15 / 20 / 25 years
- Certificates and approvals (more available on request)

### Accessoires
- RS485 interface 485PB-NR
- Speedwire/Webconnect interface SWPB-10
- Bluetooth Piggy-Back BTPBINV-NR

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**Notes:**
1. Valid from firmware 4.50
2. Does not apply to all national appendices of EN 50438

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### Accessoires

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**Data at nominal conditions**

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