SUNNY BOY 2500TL / 3000TL
SINGLE TRACKER

Now also available as an economical specialist for small, simple plants

Just like before. But new. The Sunny Boy TL is now available with only one MPP tracker and in principle offers all the benefits of its multistring brothers 3000TL, 3600TL, 4000TL and 5000TL: with economical operation, advanced technology and convenient operation, the special strengths of the Sunny Boy Single Tracker make it a standout. Not only is it a cost-efficient specialist for small, simple rooftop installations, but thanks to its reactive power capability, it’s also the perfect addition to existing systems.
### Provisional technical data

#### Sunny Boy 2500TL Single Tracker
- **Max. DC power** (@ cos \(\phi\) = 1): 2650 W
- **Max. input voltage**: 750 V
- **MPP voltage range / rated input voltage**: 180 – 500 V / 400 V
- **Min. input voltage / start input voltage**: 125 V / 150 V
- **Max. input current**: 15 A
- **Max. input current per string**: 15 A
- **Number of independent MPP inputs / strings per MPP input**: 1 / 2
- **Rated power** (@ 230 V, 50 Hz): 2500 W
- **Max. apparent AC power**: 2500 VA
- **Nominal AC voltage**: 220 V / 230 V / 240 V
- **Nominal AC voltage range**: 180 V – 280 V
- **AC power frequency / range**: 50 Hz, 60 Hz / –5 Hz, +5 Hz
- **Rated power frequency / rated grid voltage**: 50 Hz / 230 V
- **Max. output current**: 10.9 A
- **Power factor at rated power**: 1
- **Displacement power factor, adjustable**: 0.8 overexcited ... 0.8 underexcited
- **Feed-in phases / connection phases**: 1 / 1
- **Max. efficiency / European weighted efficiency**: 97% / 96.0%
- **Protection class (as per IEC 62103) / overvoltage category (as per IEC 60664-1)**: I / III
- **Dimensions (W / H / D)**: 490 / 519 / 185 mm (19.3 / 20.4 / 7.3 inch)
- **Weight**: 23 kg (50.6 lb)
- **Noise emission (typical)**: 25 dB[A]
- **Self-consumption (at night)**: 1 W
- **Topology / cooling concept**: transformerless / convection
- **Degree of protection (per IEC 60529)**: IP65
- **Climatic category (as per IEC 60721-3-4)**: 4K4H
- **Maximum permissible value for relative humidity (non-condensing)**: 100%

#### Sunny Boy 3000TL Single Tracker
- **Max. DC power** (@ cos \(\phi\) = 1): 3200 W
- **Max. input voltage**: 750 V
- **MPP voltage range / rated input voltage**: 213 – 500 V / 400 V
- **Min. input voltage / start input voltage**: 125 V / 150 V
- **Max. input current**: 15 A
- **Max. input current per string**: 15 A
- **Number of independent MPP inputs / strings per MPP input**: 1 / 2
- **Rated power** (@ 230 V, 50 Hz): 3000 W
- **Max. apparent AC power**: 3000 VA
- **Nominal AC voltage**: 220 V / 230 V / 240 V
- **Nominal AC voltage range**: 180 V – 280 V
- **AC power frequency / range**: 50 Hz, 60 Hz / –5 Hz, +5 Hz
- **Rated power frequency / rated grid voltage**: 50 Hz / 230 V
- **Max. output current**: 13.1 A
- **Power factor at rated power**: 1
- **Displacement power factor, adjustable**: 0.8 overexcited ... 0.8 underexcited
- **Feed-in phases / connection phases**: 1 / 1
- **Max. efficiency / European weighted efficiency**: 97% / 96.1%
- **Protection class (as per IEC 62103) / overvoltage category (as per IEC 60664-1)**: I / III
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- **Climatic category (as per IEC 60721-3-4)**: 4K4H
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### Accessories

- **RS485 interface**: DM-485CB-10
- **Multi-function relay**: MFR01-10
- **Power Control Module**: PWCMOD-10
- **Additional Fan Kit**: FANKIT01-10

### Features

#### Sunny Boy 2500TL Single Tracker
- **DC connection / AC connection**
- **Display**
- **Interfaces**: RS485, Bluetooth®, Speedwire/Webconnect
- **Multi-function relay / Power Control Module**
- **Warranty**: 5 / 10 / 15 / 20 / 25 years
- **Certificates and approvals** (more upon request)
  - **Standard features**  ○  **Optional features**  ○  **Not available**

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### Type designation
- **Sunny Boy 2500TL**: SB2500TLSL21
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1. Does not apply to all national appendices of EN 50438