

	Sunny Boy 2500TL Single Tracker	Sunny Boy 3000TL Single Tracker
Input (DC)		
Max. DC power (@ $\cos \varphi = 1$)	2650 W	3200 W
Max. input voltage	750 V	750 V
MPP voltage range / rated input voltage	180 – 500 V / 400 V	213 – 500 V / 400 V
Min. input voltage / start input voltage	125 V / 150 V	125 V / 150 V
Max. input current	15 A	15 A
Max. input current per string	15 A	15 A
Number of independent MPP inputs / strings per MPP input	1 / 2	1 / 2
Output (AC)		
Rated power (@ 230 V, 50 Hz)	2500 W	3000 W
Max. apparent AC power	2500 VA	3000 VA
Nominal AC voltage	220 V / 230 V / 240 V	220 V / 230 V / 240 V
Nominal AC voltage range	180 V – 280 V	180 V – 280 V
AC power frequency / range	50 Hz, 60 Hz / –5 Hz, +5 Hz	50 Hz, 60 Hz / –5 Hz, +5 Hz
Rated power frequency / rated grid voltage	50 Hz / 230 V	50 Hz / 230 V
Max. output current	10.9 A	13.1 A
Power factor at rated power	1	1
Displacement power factor, adjustable	0.8 overexcited ... 0.8 underexcited	0.8 overexcited ... 0.8 underexcited
Feed-in phases / connection phases	1 / 1	1 / 1
Efficiency		
Max. efficiency / European weighted efficiency	97% / 96.0%	97% / 96.1%
Protective devices		
DC-side disconnection device	opt.	opt.
Ground fault monitoring / grid monitoring	yes / yes	yes / yes
DC reverse polarity protection / AC short-	yes / yes / —	yes / yes / —

circuit current capability / galvanically isolate		
All-pole-sensitive residual-current monitoring unit	yes	yes
Protection class (as per IEC 62103) / overvoltage category (as per IEC 60664-1)	I / III	I / III
General data		
Dimensions (W / H / D)	490 / 519 / 185 mm (19.3 / 20.4 / 7.3 inch)	490 / 519 / 185 mm (19.3 / 20.4 / 7.3 inch)
Weight	23 kg / 50.6 lb	23 kg / 50.6 lb
Operating temperature range	-25 °C ... +60 °C / -13 °F ... 140 °F	-25 °C ... +60 °C / -13 °F ... 140 °F
Noise emission (typical)	25 dB(A)	25 dB(A)
Self-consumption (at night)	1 W	1 W
Topology / cooling concept	Transformerless / convection	Transformerless / convection
Degree of protection: electronics (per IEC 60529)	IP65	IP65
Climatic category (as per IEC 60721-3-4)	4K4H	4K4H
Maximum permissible value for relative humidity (non-condensing)	100%	100%
Features		
DC connection / AC connection	SUNCLIX / spring clamp terminal	SUNCLIX / spring clamp terminal
Display	chart	chart
Interfaces: RS485 / <i>Bluetooth</i> ® / Webconnect / Speedwire	opt. / yes / opt. / opt.	opt. / yes / opt. / opt.
Multi-function relay / Power Control Module	opt. / opt.	opt. / opt.
Warranty: 5 / 10 / 15 / 20 / 25 years	yes / opt. / opt. / opt. / opt.	yes / opt. / opt. / opt. / opt.
Certificates and approvals (more upon request)	CE, VDE 0126-1-1, VDE- AR-N 4105, C10/11, G83/1-1, G59/2	CE, VDE 0126-1-1, VDE- AR-N 4105, C10/11, G83/1-1, G59/2

Certificates and approvals (planned)	RD 1699/2011, PPC, RD 661/2007, AS 4777, EN 50438 ¹⁾ , PPDS, IEC61727, SI4777, UTE C15-712-1, CEI 0-21	RD 1699/2011, PPC, RD 661/2007, AS 4777, EN 50438 ¹⁾ , PPDS, IEC61727, SI4777, UTE C15-712-1, CEI 0-21
Type designation	SB 2500TLST-21	SB 3000TLST-21
1) Does not apply to all national appendices of EN 5043 Version: July 2012 Data at nominal conditions		