

Data sheet

THE PERFECT PORTFOLIO FOR YOUR HOME



Highest efficiency and
active shadow management



Lightweight and
easy to install



Reliable:
Designed for a long service-life

The Sunplug inverters are a well-chosen portfolio for SolarWorld Kits to power domestic homes. The power classes are matched for solar systems from 3 to 20 Sunmodules and the high efficiency and an intelligent shadow management will maximize your daily yields of valuable solar energy. The inverters have a fast start-up at the first sunlight and operate reliable throughout the day.

A guided menu, the light weight and plug and play connectors will ease the installation markedly. This, combined with an integrated data logger, will save you costs upfront. The inner design - constructed for a long lifetime of each component - will pay out in the long run: Quality "Made in Germany".

With the direct connection to the SolarWorld Suntrol Portal you will have a clear overview of your solar power systems data and you can efficiently monitor the systems performance. Either on-the-go on your smartphone or conveniently via the Internet portal.

Sunplug/eco

1.2 / 2.0 / 3.0 / 3.6 / 4.2 TL1



	1.2	2.0	3.0	3.6	4.2
DC INPUT SIDE					
Max. input voltage	420 V	420 V	600 V	845 V	845 V
Min. input voltage	75 V	75 V	125 V	350 V	350 V
MPP-voltage	75 V .. 350 V	75 V .. 350 V	270 V .. 500 V	350 V .. 700 V	360 V .. 700 V
Max. input current	11.5 A	11.5 A	11.5 A	12 A	12 A
Max. DC power	1500 Wp	2500 Wp	3800 Wp	4500 Wp	5200 Wp
Number of DC inputs	1	1	1	1	1

AC OUTPUT SIDE					
Rated power (@cos φ = 1)	1200 W	2000 W	3000 W	3680 W	4200 W
Max. apparent power (@cos φ = 1)	1260 VA	2100 VA	3160 VA	3680 VA	4200 VA
Grid voltage	185 V .. 276 V				
Rated grid voltage	230 V				
Rated frequency	50 Hz, 60 Hz / ± 5 Hz				
Max. output current	12 A	12 A	14 A	16 A	18.5 A
Power factor	0.95 capacitive .. 0.95 inductive				
Feed-in phases	1	1	1	1	1

OPERATING PERFORMANCE					
Max. efficiency	98.0 %	98.0 %	98.0 %	98.6 %	98.6 %
European efficiency	97.5 %	97.5 %	97.7 %	98.3 %	98.2 %
MPP efficiency	> 99.7 % (static), > 99.0 % (dynamic)				
Night-time power loss	< 2 W	< 2 W	< 1.2 W	< 0.7 W	< 0.7 W
Power derating at full power	from 50 °C	from 50 °C	from 45 °C	from 50 °C	from 45 °C
Noise emission	21 dB(A)	23 dB(A)	29 dB(A)	29 dB(A)	31 dB(A)
Cooling	Temperature controlled fan (dustproof)				
Isolation	transformerless				
Safety	DC-disconnect / Grid-monitoring / Residual current monitoring / Overvoltage Category III (AC) and II (DC)				

GENERAL						
Application / Degree of protection	TL1i	Indoor / IP 21 (casing IP 51; display IP 21)				
	TL1x	Outdoor / IP 65				
DC input connection	SunClix (mating connector included)					
AC output connection	Wieland RST25i3 plug (mating connector included)					
Communication	TL1i	2 x RJ45 (RS485), 1 x Ethernet, 1 x Modbus				
	TL1x	2 x RJ45 (RS485), 1x Ethernet				
Dimensions	TL1i	340 x 608 x 222 mm				
	TL1x	399 x 657 x 227 mm				
Weight	TL1i	8.3 kg	8.3 kg	9.5 kg	9.0 kg	9.0 kg
	TL1x	11 kg	11 kg	12 kg	11.5 kg	11.5 kg

SolarWorld AG reserves the right to make specification changes without notice.