

Three-Phase String Inverters 3 kW to 10 kW

> Residential, Commercial, Solar Inverters



ASW TLC Series

TLC 3000 / 4000 / 5000 / 6000 / 8000 / 10000

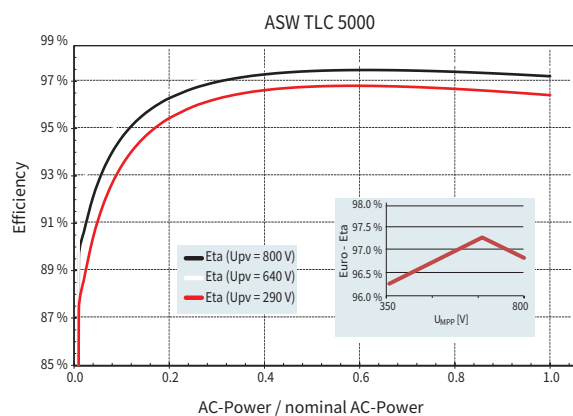
Introduction

We believe that the world would be a better place if everybody had easy access to the cleanest energy from the roof of their homes and businesses. By creating simple, easy to use, affordable and reliable inverters we are revolutionizing access to solar power and delivering financial savings to your home or business. Ideal for large residential or small commercial applications, our ASW TLC three phase inverter.

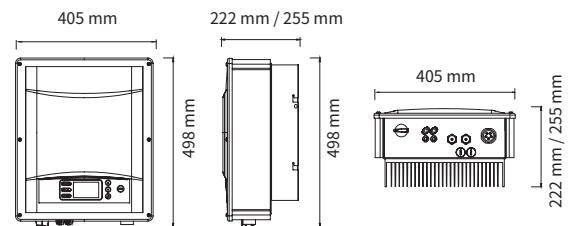
Features

- Efficiency up to 98.1 %
- Max. input voltage 1000 V
- Graphical display
- Multiple Maximum Powerpoint Tracking
- IP65 protection class
- RS485 and Modbus RTU communications
- Optional integrated Ethernet and Wi-Fi communication
- Grid management functions via integrated ComBox, AiCom, AiCom Wi-Fi or AiManager
- Easy handling for installation and maintenance

Conversion efficiency



Dimensions



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Three-Phase String Inverters 3 kW to 10 kW

Technical data	ASW TLC 3000	ASW TLC 4000	ASW TLC 5000	ASW TLC 6000	ASW TLC 8000	ASW TLC 10000
Input (DC)						
Max. PV array power	3900 Wp STC	5280 Wp STC	6600 Wp STC	7200 Wp STC	10560 Wp STC	12000 Wp STC
Max. input voltage	1000 V					
MPP voltage range / rated input voltage	200 V to 900 V / 640 V					
Min. input voltage	180 V					
Initial feed-in voltage	250 V					
Max. operating input current per MPPT input A / input B	11 A / 11 A	11 A / 11 A	11 A / 11 A	11 A / 11 A	15 A / 11 A	15 A / 11 A
Max. short current per string input A / input B	16.5 A / 16.5 A	16.5 A / 16.5 A	16.5 A / 16.5 A	16.5 A / 16.5 A	22.5 A / 16.5 A	22.5 A / 16.5 A
Number of independent MPPT inputs / strings per MPPT input	2 / A : 1 ; B : 1	2 / A : 1 ; B : 1	2 / A : 1 ; B : 1	2 / A : 1 ; B : 1	2 / A : 1 ; B : 1	2 / A : 1 ; B : 1
Output (AC)						
Rated power	3000 W	4000 W	5000 W	6000 W	8000 W	10000 W
Max. apparent AC power	3000 VA	4400 VA	5500 VA	6000 VA	8800 VA	10000 VA
AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V					
AC voltage range	160 V to 280V					
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz					
Rated power frequency / rated grid voltage	50 Hz / 230 V					
Max. output current / rated output current	3x5.2A / 3x4.4A	3x6.8 A / 3x5.8A	3x8.5A / 3x7.3A	3x9.2A / 3x8.7 A	3x13.3A / 3x11.6A	3x15.1A/3x14.5 A
Power factor at rated power / adjustable displacement power factor	1 / 0.8 overexcited to 0.8 underexcited					
Feed-in phases / AC connection	3 / 3-N-PE					
Harmonic distortion (THD) at rated output	< 3 %					
Efficiency						
Max. efficiency / Euro efficiency	97.8 % / 95.8 %	98 % / 97 %	98 % / 97.3 %	98 % / 97.5 %	98.1 % / 97.6 %	98.1 % / 97.6 %
Protective devices						
Input-side disconnection device	●					
Ground fault monitoring / grid monitoring	● / ●					
DC reverse polarity protection / AC short-circuit current capability	● / ●					
All-pole sensitive residual-current monitoring unit	●					
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC : III ; DC : II					
General data						
Dimensions (W / H / D)	405/498/222mm	405/498/222mm	405/498/222mm	405/498/222 mm	405/498/255mm	405/498/255mm
Weight	21 kg	21 kg	21 kg	21 kg	25 kg	25 kg
Operating temperature range	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C
Noise emission (typical)	< 40 dB(A)	< 40 dB(A)	< 40 dB(A)	< 40 dB(A)	< 45 dB(A)	< 45 dB(A)
Self-consumption (at night)	< 1 W					
Topology	Transformerless					
Cooling concept	Convection					
Degree of protection (according to IEC 60529)	IP65					
Climatic category (according to IEC 60721-3-4)	4K4H					
Max. permissible value for relative humidity (non-condensing)	100 %					
Max. operating altitude	2000 m					
Features						
DC connection	SUNCLIX					
AC connection	Plug-in connector					
Mounting type	Wall mounting bracket					
Display	Graphical LCD					
LED Indicators (Status / Fault / Communication)	●					
Interface: RS485 / WLAN & Ethernet ¹⁾	○ / ○					
Certificates and approvals (more available on request)	CE, EN50438, IEC62109					
Type designation	ASW TLC 3000	ASW TLC 4000	ASW TLC 5000	ASW TLC 6000	ASW TLC 8000	ASW TLC 10000

● standard ○ optional - not available

Data at nominal conditions status: February 2020

1) Zero export installations supported with 2-pin RS485 for connection to approved smart meters