Three-Phase String Inverters 3 kW to 10 kW

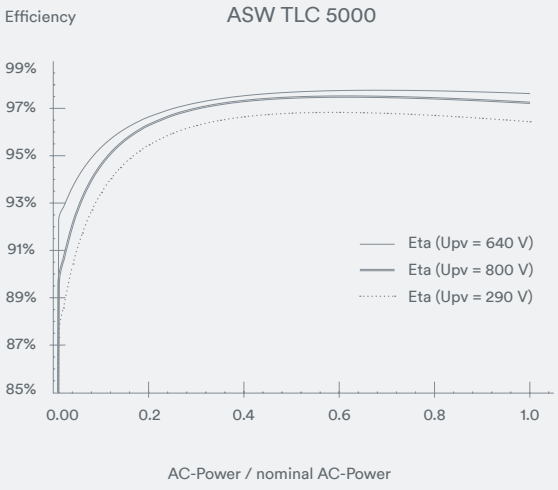
ASW TLC Series

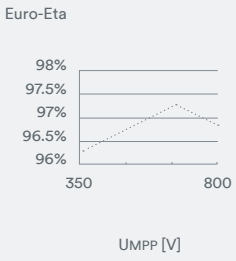
Models:
TLC 3000
TLC 4000
TLC 5000
TLC 6000
TLC 8000
TLC 10000

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.

- 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





Solplanet

AUTORYZOWANY DYSTRYBUTOR: emiternet

ul. Porcelanowa 27
40-241 Katowice

emiter@emiter.net.pl
+48 32 730 34 00

www.emiter.net.pl

Technical Data Sheet

		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 circuit 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 MPP 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 grid frequency / rated grid voltage	50 Hz/230 V					
	Max output current / rated output current	3×5.2A/ 3×4.4A	3×6.8 A/ 3×5.8A	3×8.5A/ 3×7.3A	3×9.2A/ 3×8.7 A	3×13.3A/ 3×11.6A	3×15.1A/ 3×14.5 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 & Protection	Max efficiency / European efficiency	97.8 %/ 95.8 %	98 %/97 %	98 %/ 97.3 %	98 %/ 97.5 %	98.1 %/ 97.6 %	98.1 %/ 97.6 %
	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 / 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/ 222mm	405/498/ 255mm	405/498/ 255mm
	Weight	21 kg	21 kg	21 kg	21 kg	25 kg	25 kg
	Operating temperature range	-25°C – +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)	<1W					
	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]	O / O					
	Certificates and approvals (more available on request)	CE, EN50438, IEC62109					

● Standard features / O optional features / – not available

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

Solplanet