

## PSI-J2000-TL | PSI-J2500-TL | PSI-J3000-TL

### UNICUS LINE | SINGLE PHASE INVERTER



#### FLEXIBLE AND EFFICIENT

- Optimized MPPT algorithm, MPPT efficiency higher than 99.9%
- Max. efficiency higher than 97.4%, European efficiency higher than 96.9%
- Super wide input voltage range (50 V - 500 V / 550 V), supporting system with a minimum of 3 solar panels
- The generating capacity is improved with reduced derating under high temperature

#### CONVENIENT INSTALLATION

- Transformerless, smaller and lighter
- Fast installation and maintenance thanks to Plug-in connection
- MC4 connectors supplied with the inverter

#### SMART AND EASY TO USE

- Built-in independent RTC chip, supporting data storage of 25 years
- Integrated RS-232 with Wi-Fi interface, for better communication
- Free web monitoring system
- Local and remote intelligent management by PC, IOS and Android devices
- Automatic regulation of the active and reactive power supplied to the grid

#### SAFE AND RELIABLE

- IP65 protection for indoor and outdoor installation
- Aluminum case design to enhance heat dissipation and prevent rust corrosion, prolong life time
- Built-in high voltage DC switch
- Natural convection

Availability PSI-J2000-TL: IT, ES, NL, PT, FR, IRL, UK (pending: BE)

Availability PSI-J2500-TL: IT, ES, NL, PT, FR, IRL, UK (pending: BE)

Availability PSI-J3000-TL: IT, ES, NL, PT, FR, IRL, UK (pending: BE)

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MPPT



WI-FI CONNECTION



**EASY, CONVENIENT & EFFICIENT**  
Connect your inverter to home Wi-Fi



**QUICK PARAMETERS' CONFIGURATION**  
With communication module (integrated)



**FREE APP FOR IOS AND ANDROID**  
To read data in real time

## INPUT DC

	PSI-J2000-TL	PSI-J2500-TL	PSI-J3000-TL
Max. DC Power	2400 W	3000 W	3630 W
Max. DC Voltage	500 V	500 V	550 V
MPPT Voltage range	60-450 V	60-450 V	60-500 V
Nominal DC Voltage	360 V	360 V	360 V
Start Voltage	70 V	70 V	70 V
Min. DC Voltage	50 V	50 V	50 V
Max. DC Input Current	11 A	11 A	11 A
Max. Short Circuit Current	13.2 A	13.2 A	13.2 A
N. DC Connection per MPPT	1	1	1
Number of MPPT	1	1	1
DC Switch (DC21B)	Integrated	Integrated	Integrated

## OUTPUT AC

	PSI-J2000-TL	PSI-J2500-TL	PSI-J3000-TL
Rated AC Power	2000 W	2500 W	3000 W
Max. AC Power	2200 W	2750 W	3000 W
Rated AC Current	8.7 A	10.9 A	13.0 A
Max. AC Current	9.7 A	12.8 A	14.5 A
Nominal AC Voltage / Range	220 V, 230 V, 240 V / 180 - 280 V		
Grid frequency / Range	50 Hz, 60 Hz / $\pm 5$ Hz		
Power factor [cos $\phi$ ]	> 0.99 (full load)		
Total Harmonic Distortion	< 3%		
Feed in	Single phase 1L + N + PE		

## EFFICIENCY

	PSI-J2000-TL	PSI-J2500-TL	PSI-J3000-TL
Max. Efficiency	97.4%	97.5%	97.6%
Euro Efficiency	96.9%	97.0%	97.1%
MPPT Accuracy	> 99.9%	> 99.9%	> 99.9%

## GENERAL DATA

Topology	Transformerless		
Consumption at Night	< 0.2 W		
Consumption at Standby	6 W		
Operating Temperature Range	From -25 °C to +60 °C (45 °C to 60 °C with derating)		
Cooling Method	Natural Convection		
Ambient Humidity	From 0% to 100% Non-condensing		
Altitude	Up to 2000m (without derating)		
Noise	< 25 dBA		
Overvoltage category	II (DC input), III (AC output)		
Ingress Protection	IP65 (Indoor & Outdoor Installation)		
Mounting	Rear Panel		
Dimensions (H x W x D)	354 x 305 x 120 mm		
Net Weight	7.8 Kg	8.3 Kg	8.4 Kg
Warranty	5 Years (standard) / 10 Years (optional)		

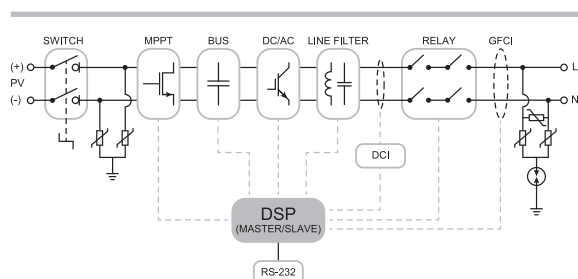
## INTERFACE

AC Connection	Plug-in connector
DC Connection	MC4 / H4
LCD	LCD (16 x 2 characters, backlight)
LED	LED (3 lights)
Display Language	Italian / English / Spanish
Communication Port	RS-232
Communication Mode	Wi-Fi / Ethernet (optional)

## PROTECTION

Internal Over-Voltage Protection	Integrated
DC Insulation Monitoring	Integrated
DCI Monitoring	Integrated
GFCI Monitoring	Integrated
Grid Monitoring	Integrated
AC Short Circuit Current Protection	Integrated
Thermal Protection	Integrated
Anti-island Protection Monitoring	AFD

## ELECTRICAL DIAGRAM



## CERTIFICATES

For a complete list of certificates visit [www.peimar.com](http://www.peimar.com)