

PSI-J1000-TL | PSI-J1500-TL

MIRUS LINE | SINGLE PHASE INVERTER



FLEXIBLE AND EFFICIENT

- Optimized MPPT algorithm, MPPT efficiency higher than 99.9%
- Max. efficiency higher than 97.1%, European efficiency higher than 96.6%
- Super wide input voltage range (50 V - 450 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 (5.6 Kg)
- 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 (optional) 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

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MPPT



WI-FI CONNECTION
(optional)



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



QUICK PARAMETERS' CONFIGURATION
With communication module (optional)



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

Availability PSI-J1000-TL: IT, ES, NL, PT, FR, IRL, UK (pending: BE)

Availability PSI-J1500-TL: IT, ES, NL, PT, FR, IRL, UK (pending: BE)

INPUT DC

	PSI-J1000-TL	PSI-J1500-TL
Max. DC Power	1200 W	1800 W
Max. DC Voltage	450 V	450 V
MPPT Voltage range	60-425 V	60-425 V
Nominal DC Voltage	360 V	360 V
Start Voltage	70 V	70 V
Min. DC Voltage	50 V	50 V
Max. DC Input Current	11 A	11 A
Max. Short Circuit Current	13.2 A	13.2 A
N. DC Connection per MPPT	1	1
Number of MPPT	1	1
DC Switch (DC21B)	Integrated	Integrated

OUTPUT AC

Rated AC Power	1000 W	1500 W
Max. AC Power	1100 W	1650 W
Rated AC Current	4.3 A	6.5 A
Max. AC Current	4.8 A	7.2 A
Nominal AC Voltage / Range	220 V, 230 V, 240 V / 180 - 280 V	
Grid frequency / Range	50 Hz, 60 Hz / ± 5 Hz	
Power factor [cos ϕ]	> 0.99 (full load)	
Total Harmonic Distortion	< 3%	
Feed in	Single Phase 1L + N + PE	

EFFICIENCY

Max. Efficiency	97.1 %	97.2 %
Euro Efficiency	96.6 %	96.7 %
MPPT Accuracy	> 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 2000 m (without derating)
Noise	< 15 dBA
Overvoltage category	II (DC input), III (AC output)
Ingress Protection	IP65 (Indoor & Outdoor Installation)
Mounting	Rear Panel
Dimensions (H x W x D)	315 x 260 x 120 mm
Net Weight	5.6 Kg
Warranty	5 Years (standard) / 10 Years (optional)

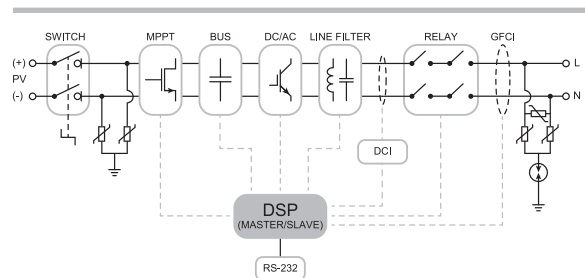
INTERFACE

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 (optional) / 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