

PSI-J25000-TP | PSI-J33000-TP PSI-J40000-TP | PSI-J50000-TP | PSI-J60000-TP



MAGNUS LINE | THREE PHASE INVERTER

FLEXIBLE AND EFFICIENT

- MPPT efficiency higher than 99.9%
- Asymmetric triple MPPT, compatible with several types of solar arrays
- Max. efficiency higher than 98.6%, european efficiency higher than 98.4%
- Super wide input voltage range (180 V - 1000 V), supporting various solar panels and string designs

CONVENIENT INSTALLATION

- Dedicated section for quick installation and maintenance
- MC4 connectors supplied with the inverter

SMART AND EASY TO USE

- Built-in independent RTC chip, supporting data storage of 25 years
- Integrated LCD graphical display, showing daily / monthly / yearly generation
- Integrated RS-232 with Ethernet 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
- Overvoltage protection with SPD type 2 (Integrated) AC side and DC side
- Integrated monitoring of the currents of singular string

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MPPT



INTEGRATED MONITORING



BUILT-IN STRING PROTECTIONS



QUICK PARAMETERS CONFIGURATION
with Web Monitoring System



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

CERTIFICATES

For a complete list of certificates visit www.peimar.com

INPUT DC

	PSI-J25000-TP	PSI-J33000-TP	PSI-J40000-TP	PSI-J50000-TP	PSI-J60000-TP
Max. DC Power	37500 W	40000 W	60000 W	65000 W	78000 W
Max. DC Voltage	1000 V	1000 V	1000 V	1000 V	1000 V
MPPT Voltage range	180-900 V	180-900 V	280-900 V	280-900 V	280-900 V
Nominal DC Voltage	600 V	600 V	600 V	600 V	600 V
Start Voltage	200 V	200 V	300 V	300 V	300 V
Min. DC Voltage	180 V	180 V	250 V	250 V	250 V
Max. DC Input Current	22 / 22 / 22 A	22 / 22 / 22 A	44 / 33 / 33 A	44 / 33 / 33 A	44 / 44 / 44 A
Max. Short Circuit Current	26.4 / 26.4 / 26.4 A	26.4 / 26.4 / 26.4 A	52.8 / 39.6 / 39.6 A	52.8 / 39.6 / 39.6 A	52.8 / 52.8 / 52.8 A
N. DC Connection per MPPT	2 / 2 / 2	2 / 2 / 2	4 / 3 / 3	4 / 3 / 3	4 / 4 / 4
Number of MPPT	3	3	3	3	3
DC Switch (DC21B)	Integrated	Integrated	Integrated	Integrated	Integrated

OUTPUT AC

Rated AC Power	25000 W	30000 W	40000 W	50000 W	60000 W
Max. AC Power	27500 W	33000 W	44000 W	55000 W	60000 W
Rated AC Current	37.9 A	43.5 A	58.0 A	72.5 A	87.0 A
Max. AC Current	42.0 A	50.0 A	65.0 A	80.0 A	90.0 A
Nominal AC Voltage / Range	220 / 380 V, 230 / 400 V, 240 / 415 V / 180 - 280 V; 312 - 485 V				
Grid frequency / Range	50Hz, 60Hz / 44 - 55Hz; 54 - 65Hz				
Power factor [cos φ]	0.8 leading - 0.8 lagging				
Total Harmonic Distortion	< 3%				
Feed in	Three phase 3L + N + PE				

EFFICIENCY

Max. Efficiency	98.6%	98.8%	98.8%	98.8%	98.9%
Euro Efficiency	98.4%	98.5%	98.5%	98.5%	98.6%
MPPT Accuracy	> 99.9 %	> 99.9 %	> 99.9 %	> 99.9 %	> 99.9 %

GENERAL DATA

Topology	Transformerless				
Consumption at Night	< 0.6 W				
Consumption at Standby	< 10 W				
Operating Temperature Range	-25 °C a + 60 °C (da 45 °C a 60 °C with derating)				
Cooling Method	Regulated ventilation and natural convection				
Ambient Humidity	0% to 100% Non-condensing				
Altitude	Up to 3000 m (over 2000 m with derating)				
Noise	< 35 dBA				
Overvoltage category	II (DC Input), III (AC output)				
Ingress Protection	IP65 (Indoor & Outdoor Installation)				
Mounting	Rear Panel				
Dimensions (H x W x D)	700 x 530 x 260 mm		800 x 550 x 280 mm		
Net Weight	48 kg		68 kg		
Warranty	5 Years (standard) / 10 Years (optional)				

INTERFACE

AC Connection	Plug-in connector				
DC Connection	MC4 / H4				
LCD	3.5 inch LCD Display, backlight				
LED	LED (3 Lights)				
Display Language	Italian / English				
Communication Port	RS-232 / RS-485				
Communication Mode	Ethernet / Wi-Fi (optional)				

PROTECTION

Internal over-voltage prot.	Integrata				
DC Insulation monitoring	Integrato				
DCI / GFCI / Grid monitoring	Integrato				
AC short circuit current prot.	Integrata				
Thermal protection	Integrata				
AC surge protection	SPD tipo 2 (Integrated)				
String current monitoring	Integrato				
DC surge protection	SPD tipo 2 (Integrated)				
DC side protection fuses	-		Integrated		
Anti-island protection monitoring	AFD				