



- 2** 2 MPPT
- WI-FI
- DC SWITCH
- MULTIFUNCTION RELÉ
- HIGH-YIELD
- ALL IN ONE: FLEXIBLE AND ECONOMIC SYSTEM SOLUTION
- INTELLIGENT GRID MANAGEMENT
- 10 YEARS WARRANTY

3-PHASE INVERTER

HIGH-YIELD

- Max 98,5% efficiency
- Flat curves of efficiency: maximum efficiency in every working condition
- Real time precise MPPT Algorithm for max harvest
- Wide input voltage operation range to 250V from 960V

FLEXIBLE AND ECONOMIC SYSTEM SOLUTION WITH EASY INSTALLATION

- Indoor and outdoor installation, thanks due to IP65
- Onboard String combiner integrated

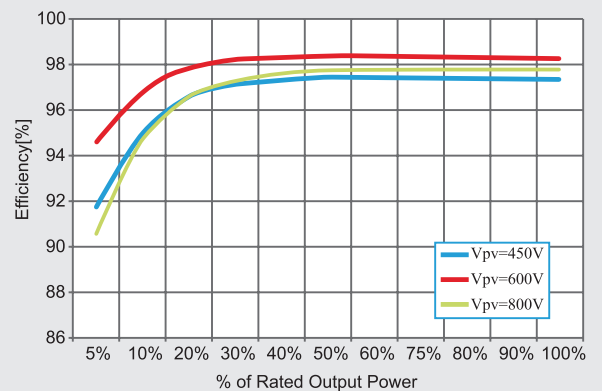
RELIABILITY, STRENGTH AND FLEXIBILITY

- Rust-free aluminum cover anti-corrosion and anti-UV
- Flexible and intuitive monitoring system
- Graphic LCD 4" display

INTELLIGENT GRID MANAGEMENT

- Support LVTR
- Reactive power capability
- Self power reducer when over frequency
- Remote active/reactive power limit control

EFFICIENCY CURVE



3-PHASE INVERTER

PSI-30000TL • PSI-33000TL

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INPUT (DC)	PSI-30000TL	PSI-33000TL
Max Input Power DC	30720 W	34000 W
Max DC Power		1000 V
Start-up input Voltage		350 V (+/-1 V)
Number of independent MPPT		2
Number of DC inputs		4 for each MPPT
Full load DC voltage range		480 V - 800 V
Max DC Power for single MPPT	15360 (480 V - 850 V)	17000 (480 V - 800 V)
MPPT voltage range		250 V - 960 V
Max Input Current per MPPT	32 A / 32 A	35 A / 35 A
Input short circuit current for each MPPT	38 A	42 A
Incoming overvoltage category		III

OUTPUT (AC)	PSI-30000TL	PSI-33000TL
Rated Power	27600 VA	30000 VA
Max AC Power	30000 VA	33000 VA
Active Power adjustable range		0% ~ 100%
Max. AC Output Current	43 A	48 A
Rated Voltage AC		3/N/PE, 230/400 Vac
Grid Voltage Range		44~55 / 54~66 Hz (adjustable, according to local standard)
THDI		<3%
Power Factor		1 (adjustable +/- 0.8)
Incoming overvoltage category		III
Grid Voltage Range		310 - 480 Vac (adjustable)

EFFICIENCY - SECURITY - PROTECTION	PSI-30000TL	PSI-33000TL
Max Efficiency		98.5%
Euro Efficiency		98.2 %
Self-consumption at night		<1 W
Feed-in start power		45 W
MPPT Efficiency		>99.5 %
DC reverse polarity protection		Yes
DC Switch		Yes
Input/Output SPD		No
Safety Protection		Anti islanding, RCMU, Ground fault monitoring
Certification		CEI 0-21:2014-09; CEI 0-21; V1:2014-12; DIN VDE V 0124-100 (VDE V 0124-100):2012-07; VDE-AR-N 4105:2011-08
Communications		RS485, WI-FI, Multifunction Relè
Power Management Unit		According to certification and request

GENERAL DATA	PSI-30000TL	PSI-33000TL
Ambient Temperature Range		-25 ~ +60 C°
Topology		Transformerless
Degree of Protection		IP 65
Allowable Relative Humidity Range		0 ... 95% no condensing
Max. Operation Altitude		2000 m
Weight		50 Kg
Cooling	Natural	Fan
Dimensions		773x564x258 mm
Noise	<30 dB	<45 dB
Warranty		10 years

It is important to point out, that all technical specifications, information and figures contained in this datasheet are estimated values. Peimar reserves the right to change the technical specifications, information and figures contained in this document at any time and without notice.

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