



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 98,2% 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

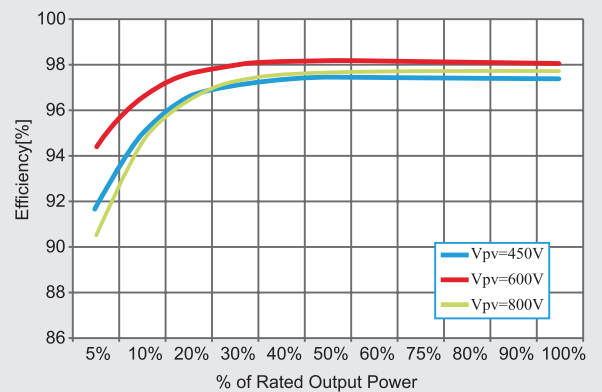
#### RELIABILITY, STRENGTH AND FLEXIBILITY

- Rust-free aluminum cover anti-corrosion and anti-UV
- Natural convection cooling
- 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-10000TL • PSI-15000TL • PSI-20000TL

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INPUT (DC)	PSI-10000TL	PSI-15000TL	PSI-20000TL
Max Input Power DC	10400 W	15600 W	20800 W
Max DC Power		1000 V	
Start-up input Voltage		350 V (+/-1 V)	
Number of independent MPPT		2 (A/B)	
Number of DC inputs		2 for each MPPT	
Full load DC voltage range	350 V - 850 V	370 - 850 V	430 V - 850 V
Max DC Power for single MPPT	6750 (450 V - 850 V)	10500 (500 V - 850 V)	12000 (500 V - 850 V)
MPPT voltage range		250 V - 960 V	
Max Input Current per MPPT	15 A / 15 A	21 A / 21 A	24 A / 24 A
Input short circuit current for each MPPT	20 A	27 A	30 A
Incoming overvoltage category		III	

OUTPUT (AC)	PSI-10000TL	PSI-15000TL	PSI-20000TL
Rated Power	10000 VA	15000 VA	20000 VA
Max AC Power	10000 VA	15000 VA	20000 VA
Active Power adjustable range		0% ~ 100%	
Max. AC Output Current	15 A	22 A	29 A
Nominal Grid Voltage		3/N/PE, 230/400 (+/-20%)	
Grid Voltage Range		44~55 / 54~66 Hz (adjustable, according to local standard)	
THDI		<3% (full load at rated voltage)	
Power Factor		1 (adjustable +/- 0.8)	
Incoming overvoltage category		III	

EFFICIENCY - SECURITY - PROTECTION	PSI-10000TL	PSI-15000TL	PSI-20000TL
Max Efficiency		98.2 %	
Euro Efficiency	97.6 % / 97.8 %	97.9 % / 98 %	98 % / 98.1 %
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-10000TL	PSI-15000TL	PSI-20000TL
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	45 Kg		48 Kg
Cooling		Natural	
Dimensions		708.8x492x245.7 mm	
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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