



1

1 MPPT



WI-FI



DC SWITCH



HIGH-YIELD



ALL IN ONE: FLEXIBLE AND ECONOMIC SYSTEM SOLUTION



INTELLIGENT GRID MANAGEMENT



10 YEARS WARRANTY

1-PHASE STRING INVERTER

HIGH-YIELD

- Max 97,2% 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 90V from 550V

FLEXIBLE AND ECONOMIC SYSTEM SOLUTION WITH EASY INSTALLATION

- Indoor and outdoor installation, thanks due to IP65
- Easy installation and maintenance due to "Plug & Play" connection
- Interface selection WiFi / RS485
- Graphic LCD 4" display

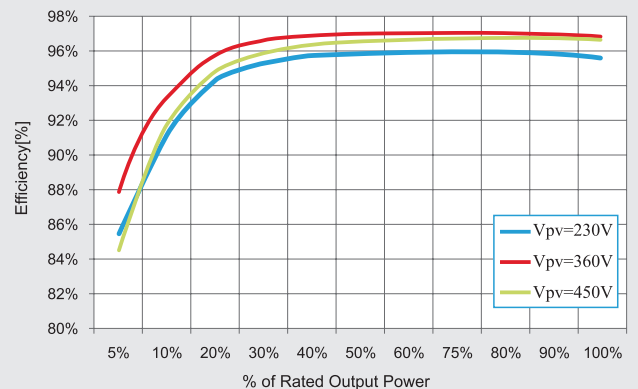
RELIABILITY, STRENGTH AND FLEXIBILITY

- Rust-free aluminum cover anti-corrosion and anti-UV
- Natural convection cooling

INTELLIGENT GRID MANAGEMENT

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

EFFICIENCY CURVE



1-PHASE STRING INVERTER

PSI-1100TL • PSI-1600TL • PSI-2200TL • PSI-2700TL • PSI-3000TL

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INPUT (DC)	PSI-1100TL	PSI-1600TL	PSI-2200TL	PSI-2700TL	PSI-3000TL
Max Input Power DC	1100 W	1600 W	2200 W	2700 W	3000 W
Max Input Voltage	450 V		500 V		550 V
Start-up input voltage	80 V				
Voltage Shutdown	40 V				
MPPT voltage range	90 V - 450 V		100 V - 500 V		100 V - 550 V
Full load DC voltage range	110 V - 450 V	165 V - 450 V	170 V - 500 V	200 V - 500 V	
Max. input current	10 A		13 A	13.5 A	15 A
Number of MPPT / String per MPPT	1/1				

OUTPUT (AC)	PSI-1100TL	PSI-1600TL	PSI-2200TL	PSI-2700TL	PSI-3000TL
Rated Power	1000 VA	1550 VA	2100 VA	2600 VA	3000 VA
Max AC Power	1000 VA	1550 VA	2100 VA	2600 VA	3000 VA
Active Power adjustable range	0% ~ 100%				
Max. AC Output Current	4.5 A	7 A	9.5 A	11.5 A	13 A
Nominal Grid Voltage	230 V / monophase				
Grid Voltage Range	180-270 V (adjustable, according to local standard)				
Nominal Frequency	50/60 Hz				
Grid Frequency Range	44~55 / 54~66 Hz (adjustable, according to local standard)				
THDi	<3% (full load at rated voltage)				
Power Factor	1 (adjustable +/- 0.8)				

EFFICIENCY - SECURITY - PROTECTION	PSI-1100TL	PSI-1600TL	PSI-2200TL	PSI-2700TL	PSI-3000TL
Max Efficiency	97 %		97.1%		
Euro Efficiency	96 %		96.2 %		96.3 %
MPPT Efficiency	>99.5 %				
Self-consumption at night	<1 W				
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				
Protection Class	Class 1				
Degree of Pollution of the external environment	Degree 3				
Overvoltage Category	PV: OVC II, Grid AC: OVC III				
Maximum reverse current to the PV array	0 A				
Output and durability of Short circuit current	200 A/1us				
Output and duration of Inrush current	0.8 A/2us				

GENERAL DATA	PSI-1100TL	PSI-1600TL	PSI-2200TL	PSI-2700TL	PSI-3000TL
Topology	Trasformerless				
DC Switch	Yes				
Standard Communication Mode	RS 485, WI-FI				
Cooling	Natural				
Ambient Temperature Range	-25 ~ +60 C°				
Allowable Relative Humidity Range	0-100 %				
Max. Operation Altitude	2000 m				
Noise	< 25dB a 1 m				
Degree of Protection	IP65				
Dimensions	398x314x135 mm				
Weight	11 Kg		12 Kg		
Display	Graphic				
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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