



2

2 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 100V 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

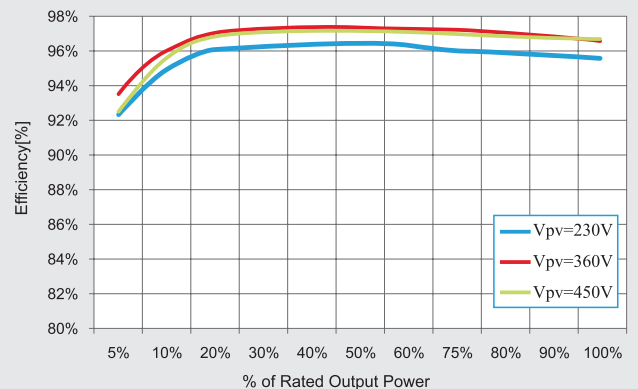
RELIABILITY, STRENGTH AND FLEXIBILITY

- 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-3000TLM • PSI-3680TLM • PSI-4000TLM
PSI-4600TLM • PSI-5000TLM • PSI-6000TLM

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INPUT (DC)	PSI-3000TLM	PSI-3680TLM	PSI-4000TLM	PSI-4600TLM	PSI-5000TLM	PSI-6000TLM
Max Input Power DC	3100 W	3800 W	4160 W	4800 W	5200 W	6300 W
Max DC Power for single MPPT	2000(200V-500V)	2400(200V-500V)	2600(200V-500V)	3000(200V-500V)		3150(250V-520V)
Number of independent MPPT	2					
Number of DC inputs	1 for each MPPT					
Max. Input Voltage	600 V					
Start-up input Voltage	100 V (+/- 5 V)					
Rated Input Voltage	360 V					
MPPT voltage range	90 V - 580 V	100 V - 580 V				
Full load DC voltage range	160 V - 520 V	165 V - 520 V			175 V - 520 V	250 V - 520 V
Max Input Current per MPPT	10 A / 10 A	12 A / 12 A	13 A / 13 A	15 A / 15 A		
Input short circuit current for each MPPT	12 A	14 A	16 A	18 A		

OUTPUT (AC)	PSI-3000TLM	PSI-3680TLM	PSI-4000TLM	PSI-4600TLM	PSI-5000TLM	PSI-6000TLM
Rated Power	3000 VA	3680 VA	4000 VA	4600 VA	5000 VA	6000 VA
Max AC Power	3000 VA	3680 VA	4000 VA	4600 VA	5000 VA	6000 VA
Active Power adjustable range	0% ~ 100%					
Max. AC Output Current	13 A	16 A	17.5 A	20 A	22 A	26 A
Nominal Grid Voltage	230 V / monophasé					
Grid Voltage Range	180 V - 270 V (adjustable, according to local standard)					
Nominal Frequency	50/60 Hz					
Grid Frequency Range	44-55 Hz (adjustable, according to local standard)					
THDi	<3 % (full load at rated voltage)					
Power Factor	1 (adjustable +/- 0.8)					

EFFICIENCY - SECURITY - PROTECTION	PSI-3000TLM	PSI-3680TLM	PSI-4000TLM	PSI-4600TLM	PSI-5000TLM	PSI-6000TLM
Max Efficiency	< 97.6 %					
Euro Efficiency	97.1 % / 97.3 %					
MPPT Efficiency	> 99.5 %					
Self-consumption at night	<1 W					
Feed-in start power	50 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				CEI 0-21:2014-09; CEI 0-21; V1:2014-12	
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-3000TLM	PSI-3680TLM	PSI-4000TLM	PSI-4600TLM	PSI-5000TLM	PSI-6000TLM
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	470x348x162 mm					
Weight	18 Kg			19 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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