

Tier 1 Key Components

- Nichicon capacitors (Japanese)
- Infineon IGBTs (German)
- STMicro CPU (French-Italian)

Breathing inverter protecting
from condensation

Patented waterproof design

Service team based in Belgium

Single Phases
1.5-3KW Series



Presola[®]

COMPANY PROFILE

Presola is a belgian residential on-grid and energy company since 2015 continuously working on designing, manufacturing, and marketing of high- performance solar inverters with intelligent monitoring system.



OUR PRODUCTS

Presola provides on-grid and hybrid solar inverters, ranging from 1.5kW to 25kW and standards, applicable for residential, commercial roofs, and small storage systems all over the world.

C10/11, AS4777, EN50438, IEC61000, IEC62116, IEC61683, IEC60068, IEC62109, EN62109, CQC, etc..



OUR SERVICES

We offer all kinds of solutions from the very beginning to the end. Our overall service includes concept, design, development, maintenance and implementation.



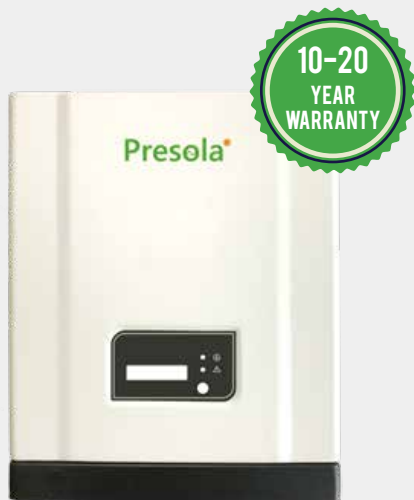
OUR MISSION

Our mission is to provide the best technology and services to our customers. We are fully committed to contributing to innovation and growth in renewable energy across the globe with our partners.



Mercury Series Single - Phase String Inverters

PM-1500 / 2000 / 2500 / 3000TL-SS



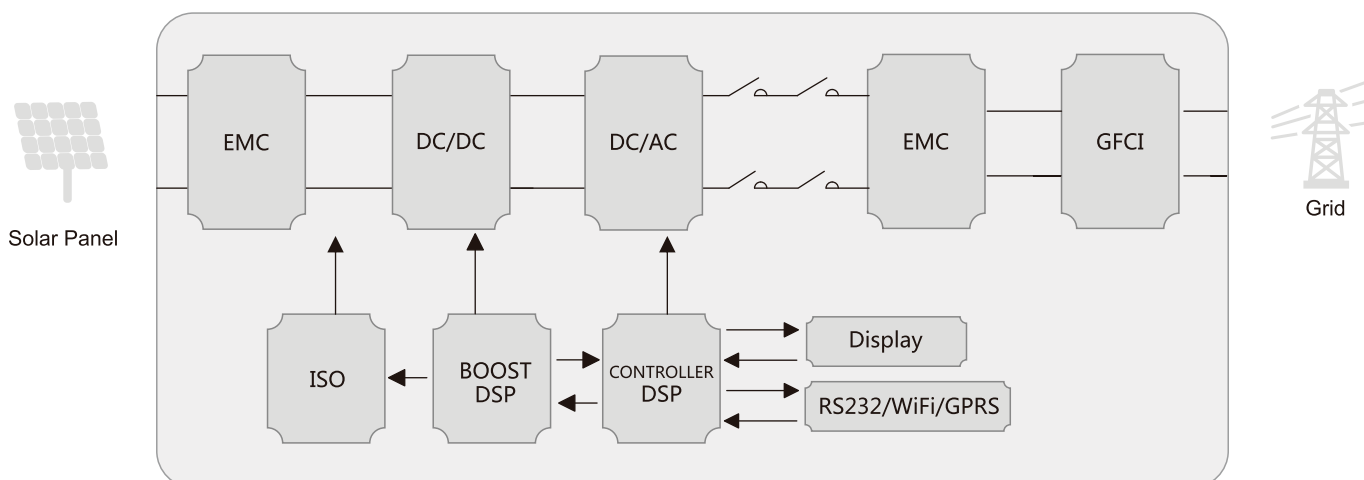
- Exquisite
- Trustworthy
- Intelligent
- Profitable

Presola

Specially designed for household applications

- Optimized thermal design for longer component life Simple installation and maintenance
- User friendly interface
- Reliable and resistant to adverse environmental conditions
- Components from world class suppliers
- Intelligent monitoring system
- Longer MTBF (Mean Time Between Failures)
- High efficiency (up to 97.2%) and reliability

CIRCUIT DIAGRAM



Mercury Series Single-Phase String Inverters PM-1500 / 2000 / 2500 / 3000TL-SS

TECHNICAL DATA				
MODEL	PM-1500TL-SS	PM-2000TL-SS	PM-2500TL-SS	PM-3000TL-SS
Max. DC Power	1650W	2200W	2750W	3300W
Max. Input Voltage	500V	500V	500V	500V
MPP Operation Voltage Range/Nominal Input Voltage	100V-450V/380V	100V-450V/380V	100V-450V/380V	100V-450V/380V
Startup Voltage	80V	80V	80V	80V
Max. Input Current per String	11.5A	11.5A	11.5A	11.5A
Short-circuit Current	13.5A	13.5A	13.5A	13.5A
Number of Independent MPP Inputs	1	1	1	1
Max. inverter Backfeed Current to Array	0A	0A	0A	0A
Output (AC)				
Rated Power	1500W	2000W	2500W	3000W
Max. Apparent AC Power	1500VA	2000VA	2500VA	3000VA
Nominal AC Voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V	220V/230V/240V
Nominal AC Voltage Range	180V-277V	180V-277V	180V-277V	180V-277V
AC Power Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Max. Output Current	6.8A	9.1A	11.4A	13.6A
Power Factor	0.8 ind...0.8 cap	0.8 ind...0.8 cap	0.8 ind...0.8 cap	0.8 ind...0.8 cap
Total Harmonic Distortion (THD)	<3%	<3%	<3%	<3%
Feed-in Phases/Connection Phases	L+N+PE	L+N+PE	L+N+PE	L+N+PE
Inrush Current(peak and duration)	49.6A peak@6.72ms	51.2A peak@6.51ms	52.0A peak@6.84ms	59.2A peak@6.88ms
Max. Output Fault Current	7.8A	10.1A	12.4A	14.6A
Max. Output Over Current Protection	8.8A	11.8A	14.8A	17.7A
Efficiency				
Max. Efficiency	96.8%	97.1%	97.2%	97.2%
European Weighted Efficiency	96.0%	96.2%	96.4%	96.4%
Protective Devices				
DC Reverse Polarity Protection	Yes			
DC Switch	Optional			
AC Over Current Protection	Yes			
Ground Fault Monitoring	Yes			
Grid Monitoring	Yes			
Residual Current Monitoring Unit	Yes			
General Data				
Dimensions (W / H / D)	326*349*135mm			
Weight	10.5 kg			
Operating Temperature Range	-25 c ...+60 c			
Noise Emission (typical)	<=25dB(A)			
Max. Operating Altitude	>2000m derating			
Standby Losses	<0.5W			
Topology	Transformerless			
Cooling Concept	Natural Convection			
Degree of Protection (according to IEC 60529)	IP 65			
Relative Humidity	0-95%, no condensation			
DC Connection Type	MC/Amphenol/Phoenix			
AC Connection Type	Plug-in connector			
Display	LCD Light			
Interface	RS 232 (WiFi/GPRS Optional)			
Warranty	5/10 years(Optional)			
Certificates and approvals	IEC62109-1/-2, EN61000-6-2, EN61000-6-3, CE, AS4777.2-2015, VDE4105, EN50438, CQC			

Monitoring Device

Presola Wi-Fi/GPRS Plug

Presola monitoring device supports WI-FI and GPRS communication. Its Bluetooth function enables local debugging upgrading to collect operation and power generation data of inverters. Pair with Presola profession platform to enable remote PV system monitoring and to realize distributed power station management with lower cost and higher efficiency.



Classification	Parameter	GPRS	WI-FI
Wireless Parameter	Operating Frequency	GSM850/EGSM900/DCS1800/DCS1900MHz	2.412GHz-2.48GHz
	Transmitting Frequency	Class 4(2W)GSM850,EGSM900 Class1(1W)DCS1800,PCS1900	802.11b:+16+/-2dBm(@11Mbps) 802.11g:+14+/-2dBm(@54Mbps) 802.11n:+13+/-2dBm(@HT20,MCS7)
	Near Field Communication		200m in outdoor open area without obstruction
	Data interface	RS232/RS485/TTL	RS232/RS485/TTL
	Operating voltage	DC4.5V~DC18.0V	
Hardware Parameter	SIM chip	Integrated patch SIM Chip (6mmX5mm)	
	Operating temperature	-40OC~+85OC	-40°C~+85°C
Software Parameter	Firmware upgrade	Remote upgrade	Remote upgrade
		Local Serial port-update (BluetoothBT3.0+EDR upgrade)	Local Serial port-update
	Other	Real-time control, FTP	Real-time control, FTP



SOLARMAN APP



SOLARMAN PRO APP

MANAGE YOUR PV SYSTEM ANYWHERE

For meeting different needs of equipment manufacturers, distributors, installers, operators and investors, our monitoring system will achieve the life cycle management of power station, including the unified operation and maintenance of global multi-station, the remote monitoring of equipment and assets.

SOLARMAN(HOME)

New Energy with SolarMan, is a professional monitoring system platform managing power plants. It supplies power generation and consumption for end-users. It's convenient to visit real time and historical data via web or IOS & Android APP anytime and anywhere. This easy-to-use platform makes monitoring of PV systems simple and convenient, far reducing time and costs as well.

SOLARMAN(PRO)

New Energy with SolarMan, is a professional monitoring system platform managing power plants. It supplies power generation and consumption for distributors. It's convenient to visit real time and historical data via web or IOS & Android APP anytime and anywhere. This easy-to-use platform makes monitoring of PV systems simple and convenient, far reducing time and costs as well.

MEET MORE DATA NEEDS

- Monitoring global power stations/equipments
- Managing lifecycle of power station
- Analyzing health of assets

Focus on High-efficiency of Distributed PV System
Bring in New Vigor to New Energy Industry
Lead a Better Life with scientific technology

Generate Bv

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