

T SERIES



IP65 Weather Protection



Excellent Low Light Sensitivity



Rugged cast Aluminium Chassis



WiFi module as standard for free



5 Year Warranty Standard



Leading edge capacitor control technology



Dynamic MPPT efficiency >99.9%
(Euro efficiency >97.2%)



Optional color Yellow



Optional color Gray



Optional color Blue

High quality electronic capacitors from



world leading supplier Epcos

Core components, from Fairchild and Infineon, long

lifetime and high efficiency



Intelligent microchips from

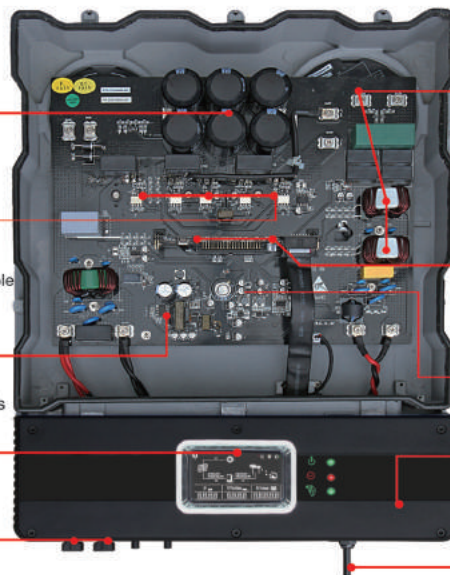


Microelectronics enable

the inverter to operate from 75Volts

Anti-UV LCD display has a **50,000** hour continuous operation lifespan

Industry standard MC4 Connectors



Amorphous Core Components from



to ensure inverter operate stable

Dual Core Processor from



RELAYS

Relay from the international brand

Panasonic

Weatherproof AC connectors

Smart WiFi system from MARVELL allows consumers to monitor their PV system performance in real time

TECHNOLOGY PARAMETERS

Model No	T1500TL	T2200TL	T3000TL
DC side/Input parameters			
Max. DC power [W]	1800	2500	3400
Max. DC voltage [Vdc]	450	500	550/75/100
Min. System start/Shut down voltage [Vdc]	75/100	75/100	150/100
MPPT voltage range[Vdc]	100~450	100~500	100~550
Max. input current [A]	10	13	15
Number of MPP trackers	1	1	1
Strings per MPP tracker	1	2	2
AC side/output parameters			
Nominal output power [W]	1500	2200	3000
Maximum output power [W]	1650	2420	3300
Nominal output voltage/range [V]	208,220,230,240/180~270		
AC grid frequency/range [Hz]	50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz		
Maximum output current [A]	8	12	17
AC connection(with PE)	Single phase	Single phase	Single phase
Current distortion(THDi) [%]	<1.5	<1.5	<1.5
Power factor [%]	> 99.9	> 99.9	> 99.9
Efficiency			
Maximum conversion efficiency[%]	97.3	97.4	97.5
European efficiency[%]	97	97.1	97.2
MPPT efficiency[%]	99.9	99.9	99.9
Safety and protection			
DC reverse-polarity protection	yes		
Anti-islanding / Overvoltage protection	yes		
Short circuit protection	yes		
Leakage current protection	yes		
Grid monitoring / Ground fault monitoring	yes		
DC/AC side varistors(thermally protected)	yes		
General Parameters			
Dimension(L/W/H)[mm]	375*480*136		
Weight (kg)	14.5	15	15.6
Embedded DC Switch	Optional		
Night power consumption[W]	< 0.2		
Isolation type	Transformerless		
Protection degree	IP65 according to IEC60529		
Operation temperature[°C]	-25 ~ 60		
Cooling concept	Natural convection		
Operating Altitude[m]	<2000m without power derating		
Acoustic noise level[dB]	<25		
Display	Graphic LCD		
Communication Interface	Standard WIFI; RS485(optional)		
Certificates and ApprovalsGeneral	CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2		
	IEC 61727/62116;G83-3/G59-3; EN50438VDE-0126-1-1;		
	VDE-AR-N4105;AS4777.2;AS4777.3; CQC		
Warranty	5 years; 10/15/20 years for optional		

* More technical characteristics are available on demand and customized

S SERIES



Optional color
Yellow



Optional color
Gray



Optional color
Blue



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Leading edge capacitor control technology



Dynamic MPPT efficiency >99.9%
(Euro efficiency >97.3%)

High quality electronic capacitors from



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Core components, from Fairchild and Infineon, long

lifetime and high efficiency



latest DC capacitors, dual dynamic trackers, make
your system always work at max power

Film capacitors from



Industry standard MC4 Connectors

Intelligent microchips from



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Amorphous Core Components from



to ensure inverter operate stable

Relay from the international brand



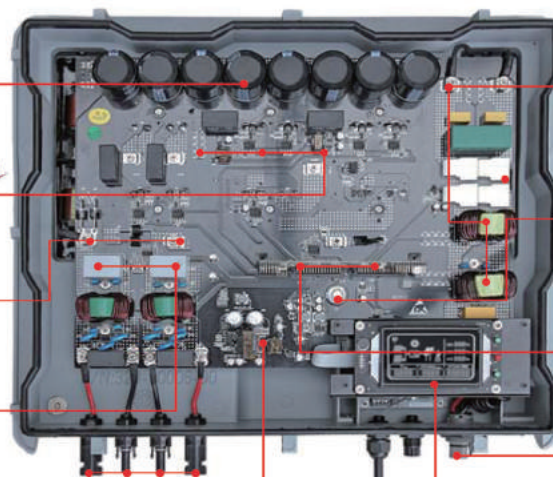
Dual Core Processor from



Weatherproof AC connectors

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operation lifespan

Smart WiFi system from MARVELL allows consumers to
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TECHNOLOGY PARAMETERS

Model No	S3600TL	S4400TL	S5000TL
DC side/Input parameters			
Max. DC power [W]	3680	4500	5500
Max. DC voltage [Vdc]	550	550	550
Min. System start/Shut down voltage [Vdc]	75/100	75/100	75/100
MPPT voltage range[Vdc]	100~550	100~550	100~550
Max. input current [A]	13.5/13.5	13.5/13.5	15/15
Number of MPP trackers	2	2	2
Strings per MPP tracker	1	1	1
AC side/output parameters			
Nominal output power [W]	3300	4000	4600*
Maximum output power [W]	3680	4400	5000**
Nominal output voltage/range [V]	208,220,230,240/180~270		
AC grid frequency/range [Hz]	50Hz,60Hz(auto-selection) / 44Hz-55Hz; 54Hz-65Hz		
Maximum output current [A]	16	21	23
AC connection(with PE)	Single phase	Single phase	Single phase
Current distortion(THDi) [%]	<2.5	<2.5	<2.5
Power factor [%]	> 99.9	> 99.95	> 99.95
Efficiency			
Maximum conversion efficiency[%]	97.5	97.6	97.8
European efficiency[%]	97.1	97.2	97.3
MPPT efficiency[%]	99.9	99.9	99.9
Safety and protection			
DC reverse-polarity protection	yes		
Anti-islanding / Overvoltage protection	yes		
Short circuit protection	yes		
Leakage current protection	yes		
Grid monitoring / Ground fault monitoring	yes		
DC/AC side varistors(thermally protected)	yes		
General Parameters			
Dimension(L/W/H)[mm]	480*400*180		
Weight (kg)	20.1		
Embedded DC Switch	Optional		
Night power consumption[W]	< 0.2		
Isolation type	Transformerless		
Protection degree	IP65 according to IEC60529		
Operation temperature[°C]	-25 ~ 60		
Cooling concept	Natural convection		
Operating Altitude[m]	<2000m without power derating		
Acoustic noise level[dB]	<25		
Display	Graphic LCD		
Communication Interface	Standard WIFI; RS485(optional)		
Certificates and ApprovalsGeneral	CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2		
	IEC 61727/62116;G83-3/G59-3; EN50438;VDE-0126-1-1;		
	VDE-AR-N4105;AS4777.2;AS4777.3;CQC		
Warranty	5 years; 10/15/20 years for optional		

*4600W according to VDE-AR-N-4105 standard.

**AC max output can be adjustable according to different standards.More technical characteristics are available on demand and customized.

Three Phase Solar On Grid Inverter

TP™ 8-20kTL



8K-15K

17K-20K



Features:

- Transformerless with the three level topology.
- Max. efficiency up to 98.6%.
- Dual MPPT inputs accommodating wide voltage range.
- Compact structure design.
- 6 inches super big LCD display

Flexibility:

- Indoors and outdoors usage (Ip65).
- Easy installation and free maintenance.
- RS485/WIFI(optional)communication.
- Multi-lingual display with large LCD screen.

Reliability:

- Reliable protection for over/under voltage, anti-islanding, short circuit, overload, etc.
- 5-years quality warranty extends to 20-years(optional).

Certificates:

CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116.

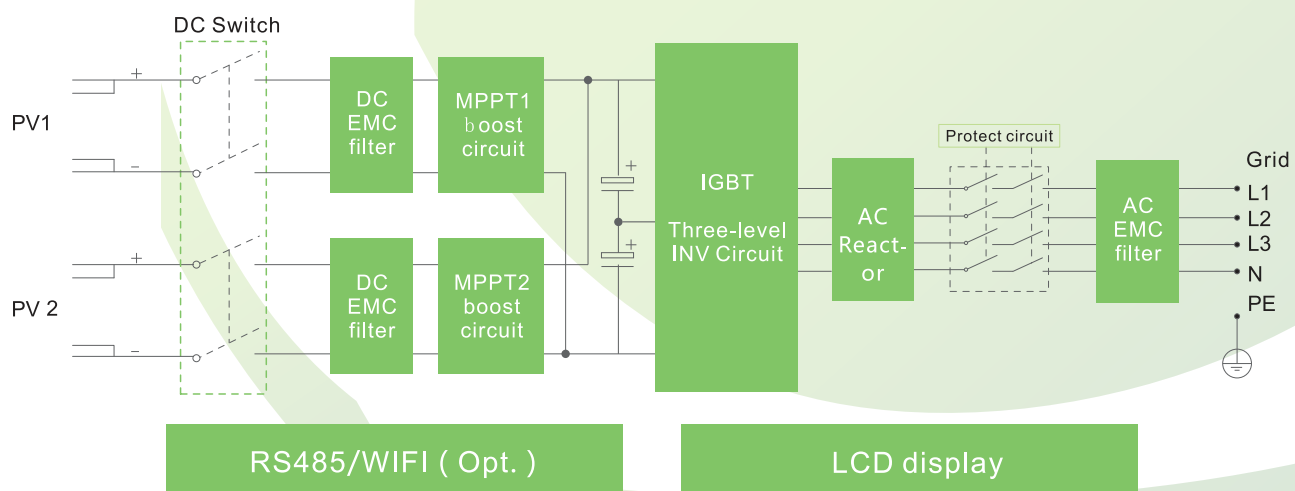


TP Series

Three Phase On grid Series provide string inverters with the best invention patented topology globally, also, we can customize, which provide more optional choices for PV power systems.

T P series has been proved to be outstanding for its features like leading edge efficiency, high cost-effective, modern appearance, friendly interface, and ultra-long quality warranty, etc.

Diagram



THREE PHASE PV ON-GRID INVERTER

Technical Data

TP8kTL/TP10kTL/12kTL/15kTL/17kTL/20kTL

Model	TP 8kTL	TP10kTL	TP12kTL	TP15kTL	TP17kTL	TP20kTL
Input(DC)						
Max DC power	9500 W	11500 W	13200 W	16500 W	18500 W	22000 W
Max DC voltage	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
Min working voltage	250 Vd.c.	250 Vd.c.	250 Vd.c.	250 Vd.c.	250 Vd.c.	250 Vd.c.
MPPT voltage range	250...850 Vd.c.	250...850 Vd.c.	250...850 Vd.c.	250...850 Vd.c.	250...850 Vd.c.	250...850 Vd.c.
Max input current/per string	17Ax2	17Ax2	17Ax2	20Ax2	25Ax2	25Ax2
Number of MPP trackers	2	2	2	2	2	2
Number of input string	2	2	2	3	4	4
Output(AC)						
AC nominal power (W)	8000	10000	12000	15000	17000	20000
Max AC apparent power(VA)	8800	11000	13200	16500	18700	22000
Max output current(A)	15	17	20	23	25	30
Nominal AC output	50/60 Hz ; 400 Vac					
AC output range	45/55 Hz ; 280~490 Vac (Adj)					
Power factor	0.8leading ... 0.8laging					
Harmonics	<1.5%					
Grid type	3W/N/PE					
Efficiency						
Max efficiency	98.2%	98.3%	98.4%	98.5%	98.5%	98.6%
Euro efficiency	97.7%	97.8%	97.9%	98.0%	98.1%	98.1%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and protection						
DC reverse-polarity protection	yes					
DC breaker	yes					
DC/AC SPD	yes					
Leakage current protection	yes					
Insulation Impedance Detection	yes					
Residual Current protection	yes					
General Data						
Dimensions(W/H/D)	510/484/271.5mm				607/540/271.5mm	
Weight	35kg				47.5kg	
Operating temperature range	-25 °C ... +60 °C					
Degree of protection	IP65					
Cooling concept	Natural convection					
Topology	Transformerless					
Display	LCD					
Humidity	0-95% ,no condensation					
Communication:RS485/WIFI	Yes/Opt.					
Warranty:5/10/20 years	Yes/Opt./Opt.					
Certificates and Approvals						