



S Series(Standard) Single Phase Solar GTI

1.0KW/1.5KW/2.2KW/3.0KW/3.6KW
4.4KW/5.0KW/6.0KW/8.0KW/10.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



Safer

comply with international quality standards
tested by TUV,BV,Dekra etc.



Great reliability

IP65 ingress protection
10+years R&D accumulation and support

ANYTIME,ANYWHERE REMOTE MONITORING PLATFORM

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S Series Single Phase

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Model No	S1000TL	S1500TL	S2200TL	S3000TL	S3600TL	S4400TL	S5000TL	S6000TL
DC Side / Input Parameters								
Max DC power (W)	1500W	2250W	3300W	4500W	5400W	6600W	7500W	7500W
Max DC voltage (Vdc)	450	450	500	500	500	500	500	500
Min System start/Shut down voltage (Vdc)	65/70	75/100	75/100	75/100	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	70~450	100~450	100~450	100~450	100~450	100~450	100~450	100~450
Max. input current (A)		13A				13A/13A		
Max.input short circuit per MPPT		17A				17A/17A		
Number of MPP trackers			1				2	
Strings per MPP tracker			1				1	
AC Side / Output Parameters								
Nominal output power (W)	1000	1500	2200	3000	3600	4000	5000	6000
Maximum output power (W)	1100	1650	2420	3300	3960	4400	5500	6600
Nominal output voltage(range (V)								
AC grid frequency(range (Hz)								
Maximum output current (A)	6	8	12	16	16	21	23	26
AC connection (with PE)								
Current distortion(THDi)	<1.5%	<1.5%	<1.5%	<1.5%	<2.5%	<2.5%	<2.5%	<2.5%
Power factor								
Efficiency								
Maximum conversion efficiency	97.3%	97.3%	97.4%	97.5%	97.8%	97.8%	97.5%	97.6%
European efficiency	97.0%	97.0%	97.1%	97.2%	97.3%	97.3%	97.2%	97.3%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	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 SPD(thermally protected)				yes				
General Parameters								
Dimension (L/W/H)(mm)			370/277/115				434/340/115	
Weight (kg)			7				8	
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)				
Warranty				Standard 5 years; 7/10 years optional				
Certificates and Approvals								
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2								

Model No	S8000TL	S10000TL
DC Side / Input Parameters		
Max DC power (W)	12000W	15000W
Max DC voltage (Vdc)	550Vd.c.	
Min System start/Shut down voltage (Vdc)	75/100	
MPPT voltage range(Vdc)	100~500Vd.c.	
Max. input current (A)	28A/18A	
Number of MPP trackers	2	
Strings per MPP tracker	2	
AC Side / Output Parameters		
Nominal output power (W)	8000	10000
Maximum output power (W)	8800	10500
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)	38.5	45.6
AC connection (with PE)	Single phase	
Current distortion(THDi)	<2.5%	
Power factor	~1%(Adjustable from 0.8 leading to 0.8 lagging)	
Efficiency		
Maximum conversion efficiency	98.1%	
European efficiency	97.5%	
MPPT efficiency	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 SPD(thermally protected)	yes	
General Parameters		
Dimension (L/W/H)(mm)	434/340/115	
Weight (kg)	10	
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)	
Warranty	Standard 5 years; 7/10 years optional	
Certificates and Approvals		
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2		



S Series(Plus) Single Phase Solar GTI

1.0KW/1.5KW/2.2KW/3.0KW
3.6KW/4.4KW/5.0KW/6.0KW



Big LCD display



Power export limit



Compact and easy to install



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Model No	S1000TL	S1500TL	S2200TL	S3000TL	S3600TL	S4400TL	S5000TL	S6000TL
DC Side / Input Parameters								
Max DC power (W)	1500W	2250W	3300W	4500W	5400W	6600W	7500W	7500W
Max DC voltage (Vdc)	450	450	500	500	500	550	550	550
Min System start/Shut down voltage (Vdc)	65/70	75/100	75/100	75/100	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	70~450	100~450	100~450	100~450	100~450	100~500	100~500	100~500
Max. input current (A)			18A				22A	
Max. input short circuit per MPPT			25A				30A	
Number of MPP trackers				1				
Strings per MPP tracker				1				
AC Side / Output Parameters								
Nominal output power (W)	1000	1500	2200	3000	3600	4000	5000	6000
Maximum output power (W)	1100	1650	2420	3300	3960	4400	5500	6600
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)	6	8	12	16	16	21	23	28
AC connection (with PE)				Single phase				
Current distortion(THDi)	<1.5%	<1.5%	<1.5%	<1.5%	<2.5%	<2.5%	<2.5%	<2.5%
Power factor				~1%(Adjustable from 0.8 leading to 0.8 lagging)				
Efficiency								
Maximum conversion efficiency	97.3%	97.3%	97.4%	97.5%	97.8%	97.8%	97.5%	97.6%
European efficiency	97.0%	97.0%	97.1%	97.2%	97.3%	97.3%	97.2%	97.3%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	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 SPD(thermally protected)				yes				
General Parameters								
Dimension (L/W/H)(mm)			370/277/115				370/290/105	
Weight (kg)			7				7	
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				Smart Cooling				
Operating Altitude (m)				<2000m without power derating				
Acoustic noise level (dB)				< 25				
Display				Graphic LCD				
Communication Interface				Standard WIFI; RS485 (optional)				
Warranty				Standard 5 years; 7/10 years optional				
Certificates and Approvals								
CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2								



TP Series Three Phase Solar GTI

4.0KW/5.0KW/6.0KW/8.0KW
10.0KW/12.0KW/15.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

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TP Series Three Phase



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Model No	TP4KTL	TP5KTL	TP6KTL	TP8KTL	TP10KTL	TP12KTL	TP15KTL
Input (DC)							
Max DC power (W)	5500W	6500W	7500W	9500W	11500W	18000W	22500W
Max DC voltage (Vdc)				1000Vd.c.			
Min working voltage (Vdc)				160Vd.c.			
MPPT voltage range (Vdc)				160..850Vd.c.			
Max input current / per string (A)				18A/18A			
Max. input short circuit per MPPT				25A/25A			
Number of MPP trackers				2			
Strings per MPP tracker				1			
Output (AC)							
AC nominal power (W)	4000	5000	6000	8000	10000	12000	15000
Max AC apparent power (VA)	5000	6000	7000	8800	11000	13200	16500
Max output current (A)	8	10	12	15	17	20	23
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				< 5%			
Grid type				3 W/N/PE			
Efficiency							
Max efficiency	98.0%	98.2%	98.2%	98.3%	98.4%	98.4%	98.4%
Euro efficiency	97.5%	97.7%	97.7%	97.8%	97.9%	97.9%	98.0%
MPPT efficiency	99.9%	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 Parameters							
Dimension (W/H/D)(mm)				480*476*157			
Weight (kg)				16			
Operating temperature range °C				-25 ~ +60			
Degree of protection				IP65			
Cooling concept				Smart Cooling			
Topology				Transformerless			
Display				LCD			
Humidity				0-95%, no condensation			
Communication				RS485/WiFi/GPRS			
Warranty				Standard 5 years; 7/10 years optional			
Certificates and Approvals							
CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116							



TP Series Three Phase Solar GTI

17.0KW/20.0KW/25.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

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Built-in limiter optional



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TP Series Three Phase



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Model No	TP17KTL	TP20KTL	TP25KTL
Input (DC)			
Max DC power (W)	25500W	30000W	30000W
Max DC voltage (Vdc)		1000Vd.c.	
Min working voltage (Vdc)		250Vd.c.	
MPPT voltage range (Vdc)		200...850Vd.c.	
Max input current / per string (A)	26A/26A		36A/26A
Number of MPP trackers		2	
Strings per MPP tracker		2	
Output (AC)			
AC nominal power (W)	17000	20000	25000
Max AC apparent power (VA)	18700	22000	27500
Max output current (A)	25	30	36
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		3 W/N/PE	
Efficiency			
Max efficiency	98.5%	98.5%	98.5%
Euro efficiency	98.1%	98.1%	98.2%
MPPT efficiency	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 Parameters			
Dimension (W/H/D)(mm)		520*510*160	
Weight (kg)		23	
Operating temperature range °C		-25 ~ +60	
Degree of protection		IP65	
Cooling concept		Smart Cooling	
Topology		Transformerless	
Display		LCD	
Humidity		0-95%, no condensation	
Communication		RS485/WiFi/GPRS	
Warranty		Standard 5 years; 7/10 years optional	
Certificates and Approvals			
CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116			



TPL Series(Low Voltage) Three Phase Solar GTI

10.0KW/12.0KW/15.0KW



Big LCD display



Power export limit



Compact and easy to install



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
Built-in limiter optional



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TPL Series Advantage

Designed with low voltage power input small commercial PV applications. For South American market of grid voltage 208V, 220V and 240V. The system configuration can be simplified instead of installation of an expensive transformer which adversely affects the system's conversion efficiency.

Model No	TPL10KTL	TPL12KTL	TPL15KTL
Input (DC)			
Max DC power (W)	16900W	20800W	22100W
Max DC voltage (Vdc)		600Vd.c.	
Min working voltage (Vdc)		100Vd.c.	
MPPT voltage range (Vdc)		100..550Vd.c.	
Max input current / per string (A)	28A/28A	28A/36A	28A/36A
Number of MPP trackers		2	
Strings per MPP tracker		2/2	
Output (AC)			
AC nominal power (W)	11000	14000	15000
Max AC apparent power (VA)	13000	16000	17000
Max output current (A)	32A	40A	43A
Rated AC Voltage / Range [V]		150 ~ 300	
Grid frequency / range [Hz]		50 / 60; ±5	
Adjustable Power Factor [cosφ]		0.8 leading ~ 0.8 lagging	
Output THDi (@Rated Output)		< 3%	
Efficiency			
Max efficiency	98.3%	98.4%	98.5%
Euro efficiency	98.0%	98.1%	98.2%
MPPT efficiency	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 Parameters			
Dimension (W/H/D)(mm)		520/520/160	
Weight (kg)		20	
Operating temperature range °C		-25 ~ +60	
Degree of protection		IP65	
Cooling concept		Natural Convection	
Topology		Transformerless	
Display		LCD	
Humidity		0-95%, no condensation	
Communication		RS485/WiFi/GPRS	
Warranty		Standard 5 years; 7/10 years optional	
Certificates and Approvals			
CQC, VDE-AR-N4105, VDE0126-1-1, AS4777, IEC61727, IEC62116			