



Thinkpower S Series (Standard) Single Phase Solar GTI

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



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

Monitor system performance in
real-time via smartphone app or
web portal using out advanced
monitoring platform .

S Series Single Phase

For more about Thinkpower S series grid tie inverter
please visit www.thinkpower.com.cn

www.thinkpower.com.cn



SOLAR GRID TIED INVERTER

Technology Data

Model No	S1000TL	S1500TL	S2200TL	S3000TL	S3600TL	S4400TL	S5000TL	S6000TL
DC Side / Input Parameters								
Max DC power (W)	1500	2250	3300	4500	5400	6600	7500	7500
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)	13			13/13				
Number of MPP trackers	1			2				
Strings per MPP tracker	1			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)	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	26
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	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	
Operatiing 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								



Thinkpower S Series (Plus) Single Phase Solar GTI

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



Big LCD display



Power export limit



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Technology Data

Model No	S1000TL	S1500TL	S2200TL	S3000TL	S3600TL	S4400TL	S5000TL	S6000TL
DC Side / Input Parameters								
Max DC power (W)	1500	2250	3300	4500	5400	6600	7500	7500
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)		18				22		
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							
Operatiing 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								



Thinkpower TP Series Three Phase Solar GTI

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



Big LCD display



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TP Series Three Phase



For more about Thinkpower TP series grid tie inverter
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THREE PHASE SOLAR GRID TIED INVERTER

Technology Data

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			
Number of MPP trackers				2			
Number of input string				1+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%	99.5%
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							



Thinkpower 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

Quick and easy single person installation
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Built-in limiter optional



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TP Series Three Phase



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THREE PHASE SOLAR GRID TIED INVERTER

Technology Data

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	
Number of input string		2+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%	99.6%	99.7%
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			



Thinkpower Low Voltage Single Phase Hybrid Inverter

3.0KW/4.0KW/5.0KW/6.0KW/7.0KW/8.0KW/10KW



Big lcd display



Excellent off grid ability



Power export limit



Wifi/GPRS/Lan communication optional



Simpler

Quick and easy single person installation
Fault codes warning view on LCD display
smart meter optional



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EPL Series Single Phase



Fore more about Thinkpower EPL series hybrid inverter
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SINGLE PHASE HYBRID INVERTER

Technology Data

EPL Series EPL8KTL (3.0KW/4.0KW/5.0KW/6.0KW/7.0KW/8.0KW/10KW)

Model	EPL3000TL	EPL4000TL	EPL5000TL	EPL6000TL	EPL8000TL	EPL10KTL
Input(DC)						
Max DC power	4500w	6000w	7500w	9000w	12000w	14000w
Max DC Voltage			500V			
MPPT voltage range			100-450Vd.c			
Rated PV Input Voltage			360V (100-500V)			
Full Load DC Voltage Range			200-425V			
PV Input Current		13+13A			26+26A	
Max.PV Isc		25+25			50+50	
Number of MPPT trackers			2			
Number of input string		1+1			2+2	
BATTERY INPUT						
Battery type			Lead-acid or Li-ion			
Battery voltage range			40-60V			
Maximun charge current	80A	100A	120A	150A	200A	210A
Maximun discharge current	80A	100A	120A	150A	200A	210A
External Temperature Sensor			Yes			
Charging Curve			3 Stages/Equalization			
Charging Strategie for Li-Ion Batteries			Self-adaption to BMS			
OUTPUT(AC)						
Rated AC Output Active Power	3000W	4000W	5000W	6000W	8000W	10000W
Maximun AC Output Active Power	3300W	4400W	5500W	6600W	8800W	10500W
AC Output Rated Current	13.1A	17.4A	21.7A	26.1A	34.8A	43.5A
Maximun AC Output Current	15A	20A	25A	28.8A	38.5A	45.6A
Maximun Continuous AC Passthrough		35A			50A	
Peak Power(off grid)			2 time of rated power, 10s			
Power Factor Adjustment Range			0.8 leading to 0.8 lagging			
Power Factor			1			
Output Frequency and Voltage			50/60HZ; L/N/PE 220/230Vac			
Grid Type			single phase			
Total Harmonic Distortion(THD)			<0.5%In			
EFFICIENCY						
Max Efficiency		97.60%			97.80%	
Euro Efficiency		96.50%			96.60%	
MPPT Efficiency			99.90%			
PROTECTION						
Interrated			Anti-islanding protection, PV String Input Reverse Polarity Protection			
			Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection			
			Output Shorted Protection, Surge Protection			
Over Voltage Category			DC Type II/AC Type III			
General Data						
Operation Temperature Range			-40-60 C , >45 C Derating			
Cooling			Smart Cooling			
Noise			≤30dB			
Communication with BMS			RS485; CAN			
Weight			25KG			
Dimension(W/H/D)(mm)			520*510*55			
Protection Degree			IP65			
Installation Style			Wall-mounted			
Warranty			Standard 5 years; 7/10 years optional			



Thinkpower High Voltage Three Phase Hybrid Inverter

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



Big lcd display



Three phase unbalanced output



Power export limit



Wifi/GPRS/Lan communication optional



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smart meter optional



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EPH Series Three Phase



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THREE PHASE HYBRID INVERTER

Technology Data

EPH Series EPH10KTL (4KW / 5KW / 6KW / 8KW / 10KW / 12KW)

Model No	EPH4KTL	EPH5KTL	EPH6KTL	EPH8KTL	EPH10KTL	EPH12KTL
Input (DC)						
Max DC power	6000W	7500W	9000W	12000W	15000W	15000W
Max DC voltage				1000Vd.c.		
MPPT voltage range				200...850Vd.c.		
Max input current/per string				13Ax2		
Number of MPP trackers				2		
Number of input string				1+1		
Battery Input						
Battery Type				Li-Ion		
Battery voltage range				130-700V		
Maximum charge/discharge current				25/25A		
Charge strategy for Li-ion Battery				Self-adaptation to BMS		
Output (AC)						
AC nominal power	4000VA	5000VA	6000VA	8000VA	10000VA	12000VA
Max AC apparent power	5000VA	5500VA	7000VA	8800VA	11000VA	13200VA
Max output current	8A	10A	12A	15A	17A	20A
Nominal AC output				50/60Hz; 400/350		
AC output range				45/55Hz;280~490Vac(Adj)		
Power factor				0.8leading...0.8laging		
Harmonics factor				<3%		
Grid type				3W/N/PE		
Three-phase unbalance output	0~100%	0~100%	0~100%	0~100%	0~100%	0~80%
AC Output (Back-up)						
Max AC apparent power	4000VA	5000VA	6000VA	8000VA	10000VA	10000VA
Norminal Output Voltage				400/380V		
Norminal Output Frequency				50/60HZ		
Output THDV (@Linear Load)				<3%		
Efficiency						
Maximum conversion efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
European efficiency	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Max battery to AC Efficiency	97.2%	97.2%	97.4%	97.4%	97.4%	97.4%
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		
Output short circuit protection				yes		
Battery reverse connection protection				yes		
General Parameters						
Dimension (W/H/D)				548*444*184mm		
Weight				27 kg		
Operating temperature range °C				-25°C...+60 °C		
Degree of protection				IP65		
Cooling concept				Natural convection		
Topology				Transformerless		
Display				LCD		
Humidity				0-95%,no condensation		
Communication				Standard WiFi;GPRS/LAN(optional)		
Warranty				Standard 5 years; 7/10 years optional		
BMS communication				CAN/RS485		
Meter communication				RS485		
Certificates and Approvals						
CQC, VDE-AR-N4105,IEC61727, IEC62116, VDE0124-AR-N0124, EN50549, IEC62109, IEC62477						