



SOLAR STRING INVERTER

1kW - 60kW GRID-TIE

ATTRIBUTES

- Transformerless Inverter.
- Low Harmonic Distortion, THDI<3%.
- Intelligent redundant Fan Cooling.*
- 5 Years Standard Warranty.
- Wide MPPT Voltage Range with Dual and Quad MPPT Design and Precise MPPT Algorithm.*
- IP 65 Certified.
- Integrated DC Switch.*
- Onboard SPDs for DC & AC Sides.*
- Wi-Fi and Monitoring Application Available.
- Multiple Protection Level.
- Maximum Efficiency Over 98.6%, EU Efficiency Over 98.2%

* Available in Higher Rating



Technical Specification (1kW - 3.2kW) Single Phase

Model	UTL 01 GT	UTL 1.5 GT	UTL 1.9 GT	UTL 02 GT	UTL 2.2 GT	UTL 2.6 GT	UTL 2.9 GT	UTL 03 GT	UTL 3.2GT
Rated DC Power (W)	1000	1500	1900	2000	2200	2600	2900	3000	3200
PV Overload Capacity (W)	1300	1650	2470	2600	2860	3380	3770	3900	4160
Max. DC voltage / Nominal DC voltage	500VDC								
MPPT voltage range	105~400	145~400		190~400		240~400		200~400	
Full Load MPPT voltage range	80~450VDC								
Min. / start DC voltage	120 / 150VDC								
Number of MPP trackers	1								
Strings per MPP tracker	1								
Max. input current per MPP tracker	11A					13A			
Output (AC)									
Nominal AC output Power (W)	1000	1500	1900	2000	2200	2600	2900	3000	3200
Nominal AC voltage	230Vac								
AC voltage range	230Vac±20%								
Nominal AC grid frequency	50 / 60Hz								
AC grid frequency range	50 / 60Hz (±5Hz)								
Max. Cont. Output Current (A)	4.5	7	8.5	9	9.5	11.5	12.5	14	
Power factor (full load)	>0.99								
THDI	<3%								
AC connection	Single Phase								
Topology	Non-isolated								
Efficiency									
Max. efficiency	96.5%		97.0%			97.5%			
Euro-eta	96%		96.5%			97%			
MPPT efficiency	99.90%								
Consumption: standby / night	<5W / <1W								
Protection devices									
AC Leakage current fault protection	Yes								
Ground fault protection	Yes								
Anti-islanding protection	Yes								
DC Reverse polarity protection	Yes								
DC Overvoltage protection	Yes								
DC Surge protection	Yes (Type III standard)								
AC Surge protection	Yes (Type III standard)								
Mechanism Data									
Dimensions (W / L / D) in mm	265 x 325 x 126								
Weight (kg)	7.6		8.1			8.6			
Environment Data									
Operating temperature range	-25°C~+60°C								
Noise emission (typical)	≤ 25dB								
Cooling concept	Natural Cooling								
Ingress Protection	IP65								
Features									
LCD display	Yes								
Interfaces	RS485 / Wi-Fi / GPRS								
DC Switch	Yes								

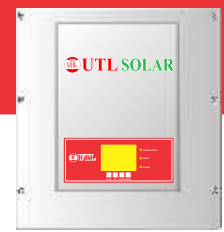
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Technical Specification (3.6kW - 5.2kW) Single Phase

Model	UTL 3.6GT	UTL 3.9GT	UTL 4GT	UTL 4.2GT	UTL 4.6GT	UTL 4.9GT	UTL 5GT	UTL 5.2GT
Rated DC Power (W)	3600	3900	4000	4200	4600	4900	5000	5200
PV Overload Capacity (W)	4680	5070	5200	5460	5980	6370	6500	6760
Max. DC voltage/Nominal DC voltage	500VDC							
MPPT voltage range	200~400VDC							
Min. / start DC voltage	120 / 150VDC							
Full load MPPT voltage range	80V - 450V							
Number of MPP trackers	2							
Strings per MPP tracker	1							
Max. DC power per MPP tracker	2200W	2300W	2500W	2600W	3000W			
Max. input current per MPP tracker	13A/13A	11A/11A	13A/13A					
Output (AC)								
Nominal AC output Power (W)	3680	3900	4000	4200	4600	4900	5000	5200
Nominal AC voltage	230Vac							
AC voltage range	230Vac±20%							
Nominal AC grid frequency	50 / 60Hz							
AC grid frequency range	50 / 60Hz (±5Hz)							
Max. Cont. Output Current (A)	16	17	17.5	18	20	21.5	22	22.5
Power Factor (full load)	>0.99							
THDI	<3%							
AC connection	Single Phase							
Topology	Non-isolated							
Efficiency								
Max. efficiency	97.5%							
Euro-eta	96.5%							
MPPT efficiency	99.90%							
Consumption: standby / night	<5W / <1W							
Protection devices								
AC leakage current fault protection	Yes							
Ground fault protection	Yes							
Anti-islanding protection	Yes							
DC Reverse polarity protection	Yes							
DC Overvoltage protection	Yes							
DC Surge protection	Yes (Type III standard)							
AC Surge protection	Yes (Type III standard)							
Mechanism Data								
Dimensions (W / L / D) in mm	317 x 466 x 150							
Weight (kg)	14.7							
Environment Data								
Operating temperature range	-25°C~+60°C							
Noise emission (typical)	≤ 25dB							
Cooling concept	Natural Cooling							
Ingress Protection	IP65							
Features								
LCD display	Yes							
Interfaces	Rs485 / Wi-Fi / GPRS							
DC Switch	Yes							

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Technical Specification (5kW - 12kW) Three Phase

Model	UTL-5-3-GT	UTL-5.5-3-GT	UTL-6.6-3-GT	UTL-8.8-3-GT	UTL 11-3 GT	UTL 12-3 GT
Rated DC Power (W)	5000	5500	6600	8800	11000	12000
PV Overload Capacity (W)	5500	6050	7260	9680	12100	13200
Max. DC input voltage	1000VDC					
MPPT voltage range	160V-960V					
MPPT voltage range (Full load)	240V-850V	240V-850V	290V-850V	380V-850V	480V-850V	575V-850V
Min. / start DC voltage	120V-260V					
Number of MPP trackers	2					
Strings per MPP tracker	1 for each MPPT					
Max. input current per MPP tracker	11A / 11A					
Output (AC)						
Max AC output Power (VA)	5000	5500	6600	8800	11000	13200
Nominal Grid AC voltage	3 / N / PE / 230 / 400V					
AC voltage Range	184-276Vac (Adjustable)					
Nominal AC grid frequency	50Hz/60Hz					
AC grid frequency range	50/60 \pm 5Hz (Adjustable, According to Local Standard)					
Max. Output Current	8.0A		9.6A	12.8A	15.9A	19.1A
Power Factor	Leading 0.8 - Lagging 0.8					
THDI	<3%					
AC connection	3/N/PE 230/400V					
Topology	Transformer-less					
Efficiency						
Max. efficiency	98%					
Euro-efficiency	97.5%					
MPPT efficiency	>99.9%					
Consumption: standby / night	<1W					
Protection devices						
AC leakage current fault protection	Yes					
Ground fault protection	Yes					
Anti-islanding protection	Yes					
DC Reverse polarity protection	Yes					
DC Overvoltage protection	Yes					
DC Surge protection	Yes (Type III standard)					
AC Surge protection	Yes (Type III standard)					
Mechanism Data						
Dimensions (W / L / D) in mm	483 X 452 X 200					
Weight (kg)	21			22		
Environment Data						
Operating temperature range	-25°C~+60°C					
Noise emission (typical)	<25dB					
Cooling concept	Natural Cooling					
Protection Degree	IP65					
Features						
LCD display	Yes					
Interfaces	RS485, WiFi, GPRS (Optional)					

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Technical Specification (10kW - 20kW) Three Phase

Model	UTL-10-GT	UTL 12 GT	UTL 15 GT	UTL 17 GT	UTL 20 GT
Rated DC Power (kW)	10	12	15	17	20
PV Overload Capacity (kW)	13	15.6	19.5	22.1	26
Max. DC voltage	1000VDC				
MPPT voltage range	250~950VDC				
Full load MPPT voltage range	480~800VDC				
Normal DC voltage	620VDC				
Min. / start DC voltage	200 / 250VDC				
Number of MPP trackers	2				
Strings per MPP tracker	1		2		
Max. input current per MPP tracker	13A / 13A		21A / 21A		
Output (AC)					
Max. Continuous AC output Power	10kW	12kW	15kW	17kW	20kW
Nominal AC voltage	400Vac				
AC voltage range	400Vac \pm 20%				
Nominal AC grid frequency	50 / 60Hz				
AC grid frequency range	50 / 60Hz (\pm 5Hz)				
Max. Continuous output current	15A	18A	22A	25A	29A
Power Factor	0.8 un to 0.8 ov (0.8leading- 0.8lagging)				
THDI	<3%				
AC connection	3W+N+PE/3W+P				
Topology	Transformer-less				
Efficiency					
Max. Efficiency	98.0%				
Euro-efficiency	97.5%				
Protection devices					
AC leakage current fault protection	Yes				
Ground fault protection	Yes				
Anti-islanding protection	Yes				
DC Reverse polarity protection	Yes				
DC Overvoltage protection	Yes				
DC Surge protection	Yes (Type III standard)				
AC Surge protection	Yes (Type III standard)				
Mechanism Data					
Dimensions (W / L / D) in mm	553 x 715 x 228				
Weight (kg)	35		39		
Environment Data					
Operating temperature range	-25°C~+60°C				
Noise emission (typical)	\leq 40dB				
Cooling concept	Natural Cooling				
Ingress Protection	IP65				
Features					
LCD display	Yes				
Interfaces	RS485 / WI-FI				

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Technical Specification (30kW - 60kW) Three Phase

Model	UTL 30 GT	UTL 50 GT	UTL 60 GT
Rated DC Power (kW)	30	50	60
PV Overload Capacity (kW)	39	65	78
Max. DC voltage	1000VDC		
MPPT voltage range	250~950VDC		
Full load MPPT voltage range	400~800VDC	480~800VDC	500~800VDC
Normal DC voltage	620VDC		
Min. / start DC voltage	200 / 250VDC		
Number of MPP trackers	3		
Strings per MPP tracker	2	4	
Max. input current per MPP tracker	26A / 26A / 26A	36A / 36A / 36A	40A / 40A / 40A
Output (AC)			
Nominal AC output Power	30kW	50kW	60kW
Max. continuous AC output Power	33kVA	55kVA	66kVA
Nominal AC voltage	400Vac		
AC voltage range	400Vac±20%		
Nominal AC grid frequency	50 / 60Hz		
AC grid frequency range	50/60Hz (±5Hz)		
Max. Continuous output current	44A	72A	87A
Power factor (full load)	>0.99		
THDI	<3%		
AC connection	3W+N+PE/3W+P E		
Topology	Transformer-less		
Efficiency			
Max. efficiency	98.3%	98.6%	
Euro-efficiency	98.0%	98.2%	
Protection devices			
AC leakage current fault protection	Yes		
Ground fault protection	Yes		
Anti-islanding protection	Yes		
DC Reverse polarity protection	Yes		
DC Overvoltage protection	Yes		
DC Surge protection	Yes (Type III standard)	Yes (Type III standard) / Optional Type II	
AC Surge protection	Yes (Type III standard)	Yes (Type III standard) / Optional Type II	
Mechanism Data			
Dimensions (W / L / D) (in mm)	636 x 958 x 260		
Weight (kg)	61	68	70
Environment Data			
Operating temperature range	-25°C~+60°C		
Noise emission (typical)	≤40dB	≤60dB	
Cooling concept	Natural	Fan	
Ingress Protection	IP65		
Features			
LCD display	Yes		
Interfaces	RS485 / WI-FI		

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