



**INDIA'S MOST PREFERRED**  
SOLAR INVERTER BRAND



## 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

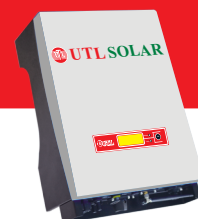




### Technical Specification (1KW - 3KW) Single Phase

Model	UTL 01 GT	UTL 1.5 GT	UTL 02 GT	UTL 03 GT
<b>Input (DC)</b>				
Max. DC power	1150W	1600W	2100W	3100W
Max. DC voltage / Norminal DC voltage	500VDC / 380VDC			
MPPT voltage range	100~490VDC			
Full Load MPPT voltage range	105~400VDC	145~400VDC	190~400VDC	240~400VDC
Min. / start DC voltage	130 / 140VDC			
Number of MPP trackers	1			
Strings per MPP tracker	1			
Max. input current per MPP tracker	11A			13A
<b>Output (AC)</b>				
Max. AC output Power	1000W	1500W	2000W	3000W
Normal AC voltage	230Vac			
AC voltage range	230Vac±20%			
Normal AC grid frequency	50 / 60Hz			
AC grid frequency range	±5Hz			
Max. output current	4.5A	7A	9A	14A
Phase shift (cos φ)	1 Unity			
THDI	<3%			
AC connection	LN+PE			
Topology	Transformerless			
<b>Efficiency</b>				
Max. efficiency	96.5%		97.6%	
Euro-eta	96%		97%	
MPPT efficiency	99.90%			
Consumption: standby / night	<5W / <0W			
<b>Protection devices</b>				
PV input insulation protection	Yes			
AC short-circuit protection	Yes			
Ground fault monitoring	Yes			
<b>Mechanism Data</b>				
Dimensions (W / L / D)	264mm / 326mm / 127mm			
Weight	6Kg		7Kg	
<b>Environment Data</b>				
Operating temperature range	-25°C~+60°C			
Noise emission (typical)	≤ 25dB			
Cooling concept	Convection			
Protection rating	IP65			
<b>Features</b>				
LCD display	Yes			
Interfaces	RS485 / Wi-Fi			

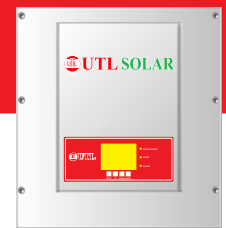
\*Specification are subject to change without prior notice due to constant improvement in design & technology.



### Technical Specification (3.2KW - 5KW) Single Phase

Model	UTL 3.2 GT	UTL 3.6 GT	UTL 04 GT	UTL 4.6 GT	UTL 05 GT
<b>Input(DC)</b>					
Max. DC power	3300W	3800W	4200W	4600W	5200W
Max. DC voltage / Norminal DC voltage	500VDC / 380VDC				
MPPT voltage range	100~490VDC				
Min. / start DC voltage	120 / 150VDC				
Fullload MPPT voltage range	150~400VDC	145~400VDC	165~400VDC	200~400VDC	
Number of MPP trackers	1	2			
Strings per MPP tracker	1				
Max. DC power per MPP tracker	1800W	2200W	2500W	3000W	
Max. input current per MPP tracker	11A / 11A	13A / 13A			
<b>Output (AC)</b>					
Max. AC output Power	3000W	3680W	4000W	4600W	5000W
Normal AC voltage	230Vac				
AC voltage range	230Vac±20%				
Normal AC grid frequency	50 / 60Hz				
AC grid frequency range	±5Hz				
Max. output current	14A	16A	17.5A	20A	22A
Phase shift (cos φ)	Lagging0.9 – leading 0.9				
THDI	<3%				
AC connection	LN+PE				
Topology	Transformerless				
<b>Efficiency</b>					
Max. efficiency	97.5%				
Euro-eta	97%				
MPPT efficiency	99.90%				
Consumption: standby / night	<5W / <0W				
<b>Protection devices</b>					
PV input insulation protection	Yes				
AC short-circuit protection	Yes				
Ground fault monitoring	Yes				
<b>Mechanism Data</b>					
Dimensions (W / L / D)	329mm / 466mm / 149mm				
Weight	14.5Kg	14.9Kg		15.5Kg	
<b>Environment Data</b>					
Operating temperature range	-25°C~+60°C				
Noise emission (typical)	≤ 25dB				
Cooling concept	Convection				
Protection rating	IP65				
<b>Features</b>					
LCD display	Yes				
Interfaces	RS485 / Wi-Fi (Internal)				
Optional	WiFi / DC Switch (Optional)				

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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
<b>Input(DC)</b>						
Max. DC power	5300W	5500W	6600W	8800W	11000W	13200W
Max. DC voltage	1000VDC					
MPPT voltage range	240V-850V	240V-850V	290V-850V	380V-850V	480V-850V	575V-850V
Full load MPPT voltage range	160V-850V		250V-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					
<b>Output (AC)</b>						
Normal AC output Power	5000W	5000W	6000W	8000W	10000W	12000W
Max. AC output Power	5000W	5500W	6600W	8800W	11000W	13200W
Normal AC voltage	230V/400V					
AC voltage range	310-480Vac (Adjustable)					
Normal AC grid frequency	50Hz/60Hz					
AC grid frequency range	44-55Hz/54-66Hz (Adjustable, Must Meet Local Grid Requirements)					
Max. output current / Phase	8.0A		9.6A	12.8A	15.9A	19.1A
Rated output current	7.3A		8.7A	11.6A	14.5A	17.4A
Phase shift (cos φ)	Lagging0.8 - leading0.8					
THDI	<3%					
AC connection	3/N/PE 230/400V					
Topology	Transformerless					
<b>Efficiency</b>						
Max. efficiency	98%			98.3%		
Euro-eta	97.5%			98%		
MPPT efficiency	>99.5%					
Consumption: standby / night	<1W					
<b>Protection devices</b>						
RCMU	Yes					
AC short-circuit protection	Yes					
Ground fault monitoring	Yes					
<b>Mechanism Data</b>						
Dimensions (W / L / D)	452mm / 457mm / 200mm					
Weight	21Kg			22Kg		
<b>Environment Data</b>						
Operating temperature range	-25°C~+60°C					
Noise emission (typical)	<25dB					
Cooling concept	Convection					
Protection rating	IP65					
<b>Features</b>						
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
<b>Input(DC)</b>					
Max. DC power	11.5KW	13.5KW	16.5KW	18.5KW	22.5KW
Max. DC voltage	1000VDC				
MPPT voltage range	250~950VDC				
Full load 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		
<b>Output (AC)</b>					
Normal AC output Power	10KW	12KW	15KW	17KW	20KW
Max. AC output Power	11KW	13KW	16KW	18KW	22KW
Normal AC voltage	400Vac				
AC voltage range	400Vac $\pm$ 20%				
Normal AC grid frequency	50 / 60Hz				
AC grid frequency range	$\pm$ 5Hz				
Max. output current / Phase	17A	20A	24A	27A	32A
Rated output current	14.5A	17.4A	21.8A	24.7A	29A
Phase shift (cos $\phi$ )	0.8leading- 0.8laging				
THDI	<3%				
AC connection	3W+N+PE/3W+P E				
Topology	Transformerless				
<b>Efficiency</b>					
Max. efficiency			98.0%		
Euro-eta	97.5%		97.5%		
<b>Protection devices</b>					
all-pole fault current monitoring unit	yes				
Ground fault monitoring	yes				
<b>Mechanism Data</b>					
Dimensions (W / L / D)			553mm / 715mm / 228mm		
Weight	35Kg		39Kg		
<b>Environment Data</b>					
Operating temperature range	-25°C~+60°C				
Noise emission (typical)	$\leq$ 40dB				
Cooling concept	Convection				
Protection rating	IP65				
<b>Features</b>					
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
<b>Input(DC)</b>			
Max. DC power	39KW	65KW	78KW
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
<b>Output (AC)</b>			
Normal AC output Power	30KW	50KW	60KW
Max. AC output Power	33KW	55KW	66KW
Normal AC voltage	400Vac		
AC voltage range	400Vac±20%		
Normal AC grid frequency	50 / 60Hz		
AC grid frequency range	50/60Hz (±5Hz)		
Rated. output current / Phase	44A	72A	87A
Max. output current / Phase	48A	80A	95A
Phase shift (cos φ)	0.8leading- 0.8laging		
THDI	<3%		
AC connection	3W+N+PE/3W+P E		
Topology	Transformerless		
<b>Efficiency</b>			
Max. efficiency	98.3%	98.6%	
Euro-eta	98.0%	98.2%	
<b>Protection devices</b>			
all-pole fault current monitoring unit	Yes		
Ground fault monitoring	Yes		
<b>Mechanism Data</b>			
Dimensions (W / L / D)	636mm / 958mm / 260mm		
Weight	61Kg	68Kg	70Kg
<b>Environment Data</b>			
Operating temperature range	-25°C~+60°C		
Noise emission (typical)	≤40dB	≤60dB	
Cooling concept	Convection	fans	
Protection rating	IP65		
<b>Features</b>			
LCD display	Yes		
Interfaces	RS485 / WI-FI		

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## FUJIYAMA POWER SYSTEMS PVT. LTD.

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