



Uratom Single Phase Solar Inverter

1.5KW/2.2KW/3.0KW/3.5KW
4.5KW/5.2KW/6.0KW

Features

- Components from World Renowned Suppliers.
- Automotive Class PCB Technology.
- Integrated Streamlined Case Design with Elegant Appearance.
- Anti-Rust Enclosure.
- Lightweight, Compact Structure Design, Easy to Install.
- Durability and Longevity with IP65 Protection.
- Enhanced Multiple MPPT Algorithm, along with String level Monitoring.
- Defeats Shading Effect by Global Peak Tracker Technology.
- Reduction of Balance of System cost (BOS) due to Integrated String Combiner Functionality.
- Double Modulation of Three Level SPWM & SVPWM, for Pure Sine Wave.



- NPC 3-Level Technology for Three Phase Inverters.
- Proven H6-Bridge Level Topology for Single Phase Inverters.
- Cap Sense Button Design for Harsh Environment.
- 5th Generation High Temperature & High Efficiency IGBT, Improving Overall Power Generation.
- Single Phase Protection Category: Type III SPD + GDT.
- Three Phase Protection Category: Type II + III SPD + GDT.
- WIFI and GPRS Remote Intelligent Monitoring System.
- Remote Software Upgrade, Parameter Setting & Troubleshooting Query.



SINGLE PHASE SOLAR GRID TIED INVERTER

Technical Data

Model No : UT-GTS	1.5 KW	2.2 KW	3.0 KW	3.5 KW	4.5 KW	5.2 KW	6.0 KW
DC Side / Input Parameters							
Max DC power (W)	1950W	2860W	3900W	4550W	5850W	7500W	7500W
Max DC voltage (Vdc)	450	500	500	500	550	550	550
Min System start/Shut down voltage (Vdc)	75/100	75/100	75/100	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	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)	1500	2200	3000	3600	4000	5000	6000
Maximum output power (W)	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)	8	12	16	16	21	23	28
AC connection (with PE)			Single phase				
Current distortion(THDi)	<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%	97.4%	97.5%	97.8%	97.8%	97.5%	97.6%
European efficiency	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%
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)		343/283/119MM				370/290/119MM	
Weight (kg)		5				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							

IS 16169, IS 16221-1 & IS 16221-2 (Formerly IS 16221-1), IEC 61727, IEC 62116, IEC 62109-1/-2), IEC 61683:1999, IEC 60068 -2 (1,2,14,30), IEC 61000-1-2-3-4