



Uratom Three Phase Solar Inverter

5.0KW/6.0KW/8.0KW/10KW
12KW/15KW/18KW/20KW

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.



THREE PHASE SOLAR GRID TIED INVERTER

Technical Data

Model No UT-GTT	5.0 KW	6.0 KW	8.0 KW	10 KW	12 KW	15 KW	18 KW	20 KW
Input (DC)								
Max DC power (W)	6500W	7500W	9500W	11500W	15600W	19500W	27000W	27000W
Max DC voltage (Vdc)				1000Vd.c.				1000Vd.c.
Min working voltage (Vdc)				160Vd.c.				250Vd.c.
MPPT voltage range (Vdc)				160...850Vd.c.				200...850Vd.c.
Max input current / per string (A)				18A/18A				
Max.input short circuit per MPPT				25A/25A			26A/26A	
Number of MPP trackers				2				2
Strings per MPP tracker				1				2
Output (AC)								
AC nominal power (W)	5000	6000	8000	10000	12000	15000	17000	20000
Max AC apparent power (VA)	6000	7000	8800	11000	13200	16500	18700	22000
Max output current (A)	10	12	15	17	20	23	25	30
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%				< 1.5%
Grid type				3 W/N/PE				
Efficiency								
Max efficiency	98.2%	98.2%	98.3%	98.4%	98.4%	98.4%	98.5%	98.5%
Euro efficiency	97.7%	97.7%	97.8%	97.9%	97.9%	98.0%	98.1%	98.1%
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				
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			520*510*160	
Weight (kg)				16			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

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