

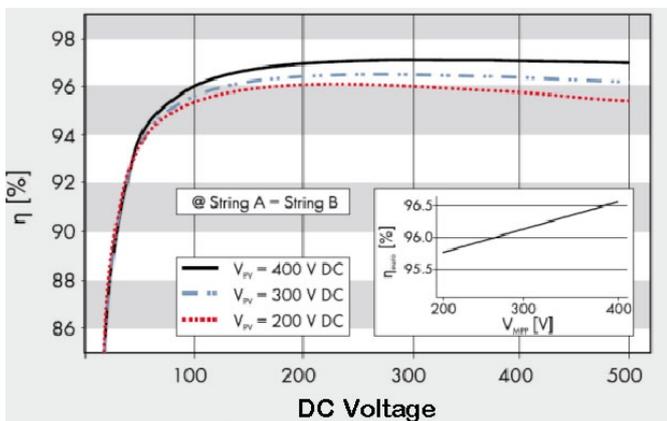
# Uratom Series 4KW - 5KW

## Single Phase Inverter

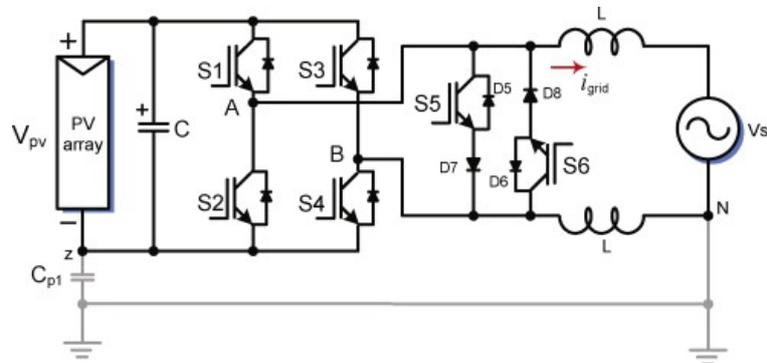


### Features

- Proven H6-bridge level Topology for Single Phase Inverters
- 5th Generation High Temperature & High Efficiency IGBT, Improving Overall Power Generation.
- Cap Sense Button Design for Harsh Environment.
- Fuse less & Fan less Design.
- Single Phase Protection Category: Type III SPD + GDT.
- WIFI and GPRS Remote Intelligent Monitoring System.
- Remote Software Upgrade, Parameter Setting & Troubleshooting Query.
- Durability and Longevity with IP65 Protection.
- Anti-Rust Enclosure.



**Inverter Efficiency Curve**



**H-6 Bridge Level Topology**

## Technical Data

SINGLE PHASE INVERTERS				
UT- GTS Model	4KW	4.2KW	4.5KW	5KW
<b>DC Input</b>				
Max DC Power	4400W	4620W	4950W	5500W
MAX DC Voltage	600V			
Operating Voltage Range (DC)	90-500V			
Full power MPPT voltage range	120-450V			
Rated Voltage DC	300V			
Startup Voltage	90V			
Max. permissible DC current / MPPT	11A + 11A			
No of MPPT	2			
No of Strings per MPPT	1+1			
DC Connection Type	MC4 Connector			
<b>AC Output</b>				
Nominal AC Output power	4000W	4200W	4500W	5000W
Max AC Current	17A	19A	20A	22A
Rated Voltage	230V / 50 Hz			
Operating voltage Range	140-290V Variable			
Operating Frequency Range	47-55Hz Variable			
AC connection configuration	P+N+E			
Power Factor	0.8 leading - 0.8 lagging			
I THD	<2%			
Self-consumption (Night)	<0.2W			
DC Current Injection	<0.25%			
<b>Efficiency</b>				
Peak efficiency	97.80%	97.80%	97.80%	97.80%
Euro efficiency	97.20%	97.20%	97.20%	97.20%
MPPT efficiency	99.50%	99.50%	99.50%	99.50%
<b>Features</b>				
Display type (LED/LCD)	2 * 16 Character LCD Display with LED Indicators			
communication Port	RS 485, WIFI , GSM (Optional)			
DC –AC conversion topology	Transformer-less			
<b>Protections</b>				
Ground fault monitoring	Enabled			
Over temperature	Enabled			
RCD monitoring	Enabled			
DC reverse polarity protection	Enabled			
Anti-Islanding Protection	Enabled			
Output Over Current Protection	Enabled			
Built in DC SPD type	TYPE III SPD + GDT			
Built in AC SPD type	TYPE III SPD + GDT			
Anti-PID feature	Optional			
Power Switch DC side	Optional			
<b>Environmental Condition</b>				
Operating Temperature Range	-25°C to + 60°C ( >50°C Derating )			
Protection level (IP)	IP65			
Operating Elevation / Altitude	> 4000m			
Cooling	Natural Cooling			
Noise level dB	<30 dB			
Dimensions	395 * 330 * 185 mm			
Weight	13KG	13KG	14KG	14KG
Warranty	5 Years Standard Warranty			
Certificates	IS 16169, IS 16221-1 & IS16221-2 ( Former IEC 61727 , IEC 62116 , IEC 62109 -1/-2) , IEC61683:1999 , IEC 60068 -2 ( 1,2,14,30), IEC 61000 -1-2-3-4			