



Single Phase Dual MPPT Inverter **Uno - Home** **3.0/ 3.3/ 3.6/ 4.2/ 4.6/ 5.0**

Simple. Reliable. Efficient



High
Efficiency



Wide Voltage
Range



Remote
Monitoring



'Smart Plug'
Load Control



Small &
Lightweight



3.0kW

3.3kW

3.6kW

Uno-Home-3.0/ Uno-Home-3.3/ Uno-Home-3.6/ Uno-Home-4.2/ Uno-Home-4.6/Uno-Home-5.0

Unrivalled in solar industry for our quality, reliability and efficiency, we have developed 6 single phase string inverters ranging from 3kW to 5kW. The wide voltage range of two inbuilt MPPTs allow for more solar energy harvesting with a maximum efficiency of 97.8%. Additionally, TOMMATECH Uno-Home plug & play Dual MPPT inverters are IP65 rated, have no internal fan but an LCD touch display and can optionally be monitored online with our mobile Wi-Fi accessory.

Uno-H-3.0 Uno-H-3.3 Uno-H-3.6 Uno-H-4.2 Uno-H-4.6 Uno-H-5.0

INPUT (DC)

Max.PV array power [Wp]	4500	4950	5400	6300	6900	7500
Max.DC voltage [V]	600	600	600	600	600	600
Nominal DC operating voltage [V]	360	360	360	360	360	360
Max. input current [A]	12/12	12/12	12/12	12/12	12/12	12/12
Max. short circuit current [A]	14/14	14/14	14/14	14/14	14/14	14/14
MPPT voltage range[V]	70-580	70-580	70-580	70-580	70-580	70-580
Start operating voltage[V]	100	100	100	100	100	100
No. of MPP trackers	2	2	2	2	2	2
Strings per MPP tracker	1/1	1/1	1/1	1/1	1/1	1/1

OUTPUT AC

Nominal AC power [VA]	3000	3300	3680	4200	4600	5000(4600 for VDE4105)
Max. AC power [VA]	3300	3630	4080(3680 for G98)	4620	5060	5500(4600 for VDE4105)
Nominal grid voltage(AC voltage range) [V]	220/230/240; 180~280					
Nominal grid frequency/range [Hz]	50/60; ±5					
Nominal AC current [A]	13	14.3	16	18.3	20	21.7(20 for VDE4105)
Max. AC current [A]	14.3	15.8	17.6(16 for G98)	20.1	22	23.9 (20 for VDE4105) (21.7 for AS4777)
Displacement power factor	0.8 leading ~ 0.8 lagging					
THDi, rated power [%]	<2					

EFFICIENCY

MPPT efficiency [%]	99.9					
Euro efficiency [%]	97.0					
Max. efficiency [%]	97.8					

POWER CONSUMPTION

Standby consumption (Night) [W]	<0.5					
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STANDARD

Over voltage protection	YES					
Over current protection	YES					
DC isolation impedance monitoring	YES					
Ground fault current monitoring	YES					
DC injection monitoring	YES					
RCD protection	YES					
Safety	IEC62109-1/-2					
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3					
Certification	VDE4105 /G98 / G99/ AS4777 / EN50549 / CEI0-21					

ENVIRONMENT LIMIT

Degree of protection(according to IEC60529)	IP65					
Operating temperature range [OC]	-25~+60(derating at 45)					
Max. operation altitude [m]	<2000					
Humidity [%]	0~100 (non-condensation)					
Storage temperature [OC]	-25~+60					
Typical noise emission [dB]	<25					

DIMENSION AND WEIGHT

Dimensions(WxHxD) [mm]	341.5*430*143					
Weight[kg]	13.5	13.5	13.5	14.5	14.5	14.5
Cooling concept	Natural					
Topology	Non-isolated					
Communication interfaces	Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-Upgrade					
LCD display	Yes					
Standard warranty [years]	5-10					