



Three Phase String Inverter

## Trio - Atom

4.0/ 5.0/ 6.0/ 7.0/ 8.0/ 9.0/ 10.0

*Small Inverter  
Big Performance*



High  
Efficiency



Wide Product  
Range



Remote  
Monitoring



IP65  
Rated



High  
PV Voltage

4.0kW

10.0kW

4.0kW

### Trio-Atom-4.0.....Trio-Atom-10.0/ Trio-Atom-4.0/ Trio-Atom-5.0



TOMMATECH's small commercial or residential Trio-Atom string inverters are perfectly designed for homes with solar panels on different sides of the roof, as they boast two MPPTs with a wide PV voltage ranging up to 1000V to allow for more solar energy harvesting with a maximum efficiency of 98.5%. Additionally, the three phase inverters are IP65 rated, have no internal fan and can optionally be monitored online with our mobile Wi-Fi accessory.

Dual MPPT

Single MPPT

Trio-A-4.0 Trio-A-5.0 Trio-A-6.0 Trio-A-7.0 Trio-A-8.0 Trio-A-9.0 Trio-A-10.0 Trio-A-4.0 Trio-A-5.0

INPUT (DC)	Trio-A-4.0	Trio-A-5.0	Trio-A-6.0	Trio-A-7.0	Trio-A-8.0	Trio-A-9.0	Trio-A-10.0	Trio-A-4.0	Trio-A-5.0
Max.PV array power [Wp]	6000	7500	9000	10500	12000	13500	15000	6000	7500
Max.DC voltage [V]	800	800	800	1000	1000	1000	1000	1000	1000
Nominal DC operating voltage [V]	600	600	600	600	600	600	600	600	600
Max. input current [A]	12/12	12/12	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	14/14	14	14
MPPT voltage range[V]	160-750	160-750	160-750	160-900	160-900	160-900	160-900	160-900	160-900
Start operating voltage[V]	180	180	180	180	180	180	180	180	180
No. of MPP trackers	2	2	2	2	2	2	2	1	1
Strings per MPP tracker	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
<b>OUTPUT AC</b>									
Nominal AC power [VA]	4000	5000	6000	7000	8000	9000	10000	4000	5000
Max. AC power [VA]	4400	5500	6600	7700	8800	9900	11000	4400	5500
Nominal grid voltage(AC voltage range) [V]	3/N/PE, 3/PE, 230/400(310-480)								
Nominal grid frequency/range [Hz]	50/60; ±5								
Nominal AC current [A]	5.8	7.2	8.7	10.1	11.6	13.0	14.5	5.8	7.2
Max. AC current [A]	6.4	8.0	9.6	11.2	12.8	14.3	15.9	6.4	8.0
Displacement power factor	0.8 leading ~ 0.8 lagging								
THDi, rated power [%]	<2								
<b>EFFICIENCY</b>									
MPPT efficiency [%]	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Euro efficiency [%]	97.8	97.8	97.8	98	98	98	98	97.8	97.8
Max. efficiency [%]	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.3	98.3
<b>POWER CONSUMPTION</b>									
Standby consumption (Night) [W]	<3								
<b>STANDARD</b>									
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	EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3								
Certification	AS4777; VDE4105;G98; G99; EN50549; CEI0-21								
<b>ENVIRONMENT LIMIT</b>									
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]	<35								
<b>DIMENSION AND WEIGHT</b>									
Dimensions(WxHxD) [mm]	534*419*201								
Weight[kg]	30	30	30	30	30	30	30	28	28
Cooling concept	Natural								
Topology	Non-isolated								
Communication interfaces	RS485/DRM/Pocket WiFi(optional)/Pocket LAN (optional)/Pocket GPRS (optional)/Meter (optional)/USB-upgrade								
LCD display	Backlight 16*4 character								
Standard warranty [years]	5-10								