TRIO ATOM THREE PHASE INVERTER

TOMMATECH GmbH
GERMAN-based company

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 5.0kW 6.0kW

Trio-Atom-4.0/ Trio-Atom-5.0/ Trio-Atom-6.0/ Trio-Atom-7.0/ Trio-Atom-8.0/ Trio-Atom-9.0/ Trio-Atom-10.0

TommaTech®'s Trio–Atom inverters are perfectly designed for projects with solar panels on different sides of a roof, as they boast two MPPTs with a wide PV voltage ranging up to 1,000V to maximize solar energy harvesting. Additionally, the three phase inverters are IP65 rated and can optionally be monitored online with our mobile Wi-Fi accessory.

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TRIO ATOM (THREE PHASE)

TOMMATECH GmbH
GERMAN-based company

CE

	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
DC INPUT							
Max. PV array power [Wp]	6000	7500	9000	10500	12000	13500	15000
Max. DC voltage [V]	800			1000			
Nominal DC operating voltage [V]	600			600			
Max. input current [A]	12/12			12/12			
Max. short circuit current [A]	14/14			14/14			
MPPT voltage range [V]	160-750			160-900			
Start operating voltage [V]	180			180			
No. of MPPTs	2			2			
Strings per MPPT	1/1			1/1			
AC OUTPUT							
Nominal AC power [VA]	4000	5000	6000	7000	8000	9000	10000
Max. AC power [VA]	4400	5500	6600	7700	8800	9900	11000
Nominal grid voltage [V]	3/N/PE, 3/PE, 230/400(310-480)						
Nominal grid frequency [Hz]	50/60						
Nominal AC current [A]	5.8	7.2	8.7	10.1	11.6	13.0	14.5
Max. AC current [A]	6.4	8.0	9.6	11.2	12.8	14.3	15.9
Displacement power factor	0.8 Leading ~ 0.8 Lacking						
THDi, rated power [%]	<2						
EFFICIENCY							
MPPT efficiency [%]	99.9						
Euro. efficiency [%]	97.8	97.8	97.8	98	98	98	98
Max. efficiency [%]	98.3	98.3	98.3	98.4	98.4	98.5	98.5
POWER CONSUMPTION							
Standby consumption [W]	<3						
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	EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3						
ENVIRONMENT LIMIT							
Degree of protection (according to IEC60529)	IP65						
Operating temperature range [°C]	-25 ~+60 (Derating>45)						
Max. operation altitude [m]	<2000						
Humidity [%]	0~100 (Condension)						
Storage temperature [°C]	-25 ~ +60						
Typical noise emission [dB]	<35						
DIMENSIONS AND WEIGHT							
Dimensions (WxHxD) [mm]	534x419x201						
Weight [kg]	30						
Cooling concept	Natural						
Topology	Non-Isolated						
Communication interfaces	RS485 / USB - Update / Optional: Mobile Wi-Fi / Mobile LAN / Remote Wi-Fi / Trio Smart Meter						
LCD display	Backlight 16x4 Character						
Standard warranty [years]	5 (Extendable)						

* TommaTech GmbH reserves the right to change the specifications of the products without prior notice.

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