TRIO INOVA SERIES THREE PHASE INVERTER

TOMMATECH GmbH
GERMAN-based company

Three Phase String Inverter

Trio Inova Series

3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12 / 15

Small Inverter
Big Performance

- High Efficiency
- Zero Export
- Wide Voltage Range
- Remote Monitoring
- IP65

3.0kW 4.0kW

Trio Inova 3K/Trio Inova 4K/Trio Inova 5K/ Trio Inova 6K/Trio Inova 7K/Trio Inova 8K/ Trio Inova 9K/Trio Inova 10K/Trio Inova 12K/ Trio Inova 15K

Trio Inova Series offers high-efficiency three-phase string inverter solutions designed for commercial and residential applications. With its advanced multiple MPPT architecture, it ensures maximum energy yield across various PV configurations while providing enhanced grid compatibility through a wide output voltage range. Supporting zero export applications, the series meets modern grid requirements with ease. Featuring a compact design and comprehensive protection mechanisms, the Trio Inova Series is an ideal choice for reliable and sustainable solar energy systems.

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TRIO INOVA SERIES (THREE PHASE)

TOMMATECH GmbH
GERMAN-based company

CE

	Trio Inova 3K	Trio Inova 4K	Trio Inova 5K	Trio Inova 6K	Trio Inova 7K	Trio Inova 8K	Trio Inova 9K	Trio Inova 10K	Trio Inova 12K	Trio Inova 15K
PV STRING INPUT DATA										
Max. PV Input Power (kW)	4.5	6	7.5	9	10.5	12	13.5	15	18	22.5
Max. PV Input Voltage (V)	1100									
Start-up Voltage (V)	140									
MPPT Voltage Range (V)	120-1000									
Rated PV Input Voltage (V)	600									
Max. Operating PV Input Current (A)	20+20									20+26
Max. Input Short Circuit Current (A)	30+30									30+39
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1									2/1+2
AC OUTPUT SIDE										
Rated AC Output Active Power (kW)	3	4	5	6	7	8	9	10	12	15
Max. AC Output Apparent Power (kVA)	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11	13.2	16.5
Rated AC Output Current (A)	4.6/4.4	6.1/5.8	7.6/7.3	9.1/8.7	10.7/10.2	12.2/11.6	13.7/13.1	15.2/14.5	18.2/17.4	22.8/21.8
Max. AC Output Current (A)	5/4.8	6.7/6.4	8/4.8	10/9.6	11.7/11.2	13.4/12.8	15/14.4	16.7/16	20/19.2	25/24
Rated Output Voltage/Range (V)	220/380V, 230/400V 0.85Un–1.1Un									
Grid Connection Form	3L/N/PE									
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65									
Power Factor Adjustment Range	0.8 leading to 0.8 lagging									
Total Current Harmonic Distortion THDi	<3%									
DC Injection Current	<0.5%In									
EFFICIENCY										
Max. Efficiency	98.1%		98.2%		98.3%					98.5%
Euro Efficiency	97.5%		97.6%		97.8%					98%
MPPT Efficiency	>99%									
EQUIPMENT PROTECTION										
DC Reverse Polarity Protection	Yes									
AC Output Overcurrent Protection	Yes									
AC Output Overvoltage Protection	Yes									
AC Output Short Circuit Protection	Yes									
Thermal Protection	Yes									
Insulation Impedance Detection	Yes									
DC Component Monitoring	Yes									
Arc Fault Circuit Interrupter (AFCI)	Optional									
Anti-islanding Protection	Yes									
Residual Current Detection	Yes									
Surge Protection Level	TYPE II(DC), TYPE II(AC)									
DC Switch	Yes									
INTERFACE										
Communication Interface	RS485/RS232									
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)									
GENERAL DATA										
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating									
Permissible Ambient Humidity	0-100%									
Permissible Altitude (m)	4000m									
Noise (dB)	<45									
Ingress Protection (IP) Rating	IP 65									
Inverter Topology	Non-Isolated									
Over Voltage Category	OVC II(DC), OVC III(AC)									
Cabinet Size (WxHxD mm) (Excluding Connectors and Brackets)	283x525x178									283x525x188
Weight (kg)	11.5									12
Warranty	5 Years									
Type of Cooling	Natural Cooling									
Grid Regulation	IEC 61727, IEC 62116, EN 50549									
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2									

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

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