TRIO HYBRID MAXI PRO SERIES THREE PHASE INVERTER

TOMMATECH GmbH
GERMAN-based company





Three Phase Hybrid Inverter

Trio Hybrid Maxi Pro Series
29.9 / 30 / 35 / 40 / 50

Intelligent, Powerful, Efficient.

- 3 Phase Unbalanced Output
- AC Coupling
- High Voltage Battery
- Up to 10 Units Parallel
- Diesel Generator Support
- 160A Max Charging Current



29.9kW 30.0kW

INV-TT-TF-M29.9K-PRO / INV-TT-TF-M30K-PRO / INV-TT-TF-M35K-PRO / INV-TT-TF-M40K-PRO / INV-TT-TF-M50K-PRO

The three-phase TommaTech® Trio Hybrid Maxi Pro Series 29.9–50 kW hybrid inverters are designed for commercial and industrial applications. Featuring high-voltage battery support, four MPPTs and a maximum efficiency of 97.6%, they provide efficient and flexible energy management. With up to 10 units operating in parallel for on-grid and off-grid applications, a maximum charging/discharging current of 160 A, AC coupling capability and IP65 protection, the TommaTech® Trio Hybrid Maxi Pro Series delivers an intelligent, powerful and efficient energy solution.

TommaTech GmbH - Garching b. München / GERMANY

www.tommatech.de
mail@tommatech.de

TRIO HYBRID MAXI PRO SERIES (THREE PHASE)

TOMMATECH GmbH
GERMAN-based company

PV String Input Data	INV-TT-TF-M29.9K-PRO	INV-TT-TF-M30K-PRO	INV-TT-TF-M35K-PRO	INV-TT-TF-M40K-PRO	INV-TT-TF-M50K-PRO
Max. PV Access Power (W)	59800	60000	70000	80000	100000
Max. PV Input Power (W)	47840	48000	56000	64000	80000
Max. PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	36+36+36			36+36+36+36	
Max. Input Short-Circuit Current (A)	55+55+55			55+55+55+55	
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2			4/2+2+2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	29900	30000	35000	40000	50000
Max. AC Input/Output Apparent Power (VA)	29900	33000	38500	44000	55000
Rated AC Input/Output Current (A)	45.4/43.4	45.5/43.5	53.1/50.8	60.7/58.0	75.8/72.5
Max. AC Input/Output Current (A)	45.4/43.4	50/47.9	58.4/55.8	66.7/63.8	83.4/79.8
Max. Continuous AC Passthrough (grid to load) (A)	200				
Peak Power (off-grid) (W)	1.5 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/380V,230/400V 0.85Un-1.1Un 3L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Battery Input Data					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-800				
Max. Charging/Discharging Current (A)	160				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	Tip II(DC), TİP II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI/RS485/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G				
General Data					
Operating Temperature Range ( )	-40 to +60˚C , >45˚C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
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)	528x793x278 (Excluding Connectors and Brackets)				
Weight (kg)	65				
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years				
Grid Regulation	IEC 61727, IEC 62116, EN 50549, VDE-4105				
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.

TommaTech GmbH - Garching b. München / GERMANY

www.tommatech.de
mail@tommatech.de