TRIO HYBRID THREE PHASE INVERTER

TOMMATECH GmbH
GERMAN-based company



Three Phase Hybrid Inverter

Trio Hybrid
5.0/ 6.0/ 8.0/ 10.0

Simple. Reliable. Efficient.

- 3- Phase Unbalance Output
- High Efficiency
- Remote Monitoring
- IP65 Rated
- Hybrid Solution



5.0kW 6.0kW 8.0kW

Trio-Hybrid-5.0/ Trio-Hybrid-6.0/ Trio-Hybrid-8.0/ Trio-Hybrid-10.0

TommaTech® Trio-Hybrid three phase inverters are the preferred solution for commercial projects as they support unbalanced output, are equipped with dual protection for the BMS and can be controlled remotely through multiple communication options. Furthermore, they can be installed in parallel allowing for solutions of up to 100kWh and 250kWh storage.

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TRIO HYBRID (THREE PHASE)

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CE

	Trio-Hy-5.0	Trio-Hy-6.0	Trio-Hy-8.0	Trio-Hy-10.0
DC INPUT				
Max. PV array power [Wp]	7500	9000	12000	15000
Max. DC voltage [V]	1000		1000	
Nominal DC operating voltage [V]	720		720	
Max. input current (input A/input B) [A]	12/12		24/12	
Max. short circuit current (input A/input B) [A]	14/14		28/14	
MPPT voltage range [V]	180-950		180-950	
Start operating voltage [V]	180		180	
No. of MPPTs	2		2	
Strings per MPPT	1/1		2/1	
AC INPUT				
Max. apparent AC power [VA]	5500	6000	8000	10000
Max. AC current [A]	8.0	9.6	12.8	15.9
Nominal grid voltage [V]	400/230;380/220			
Nominal grid Frequency [Hz]	50/60			
AC OUTPUT				
Nominal AC power [VA]	5000	6000	8000	10000
Max. apparent AC power [VA]	5500	6600	8800	11000
Nominal grid voltage [V]	400/230;380/220			
Nominal grid frequency [Hz]	50/60			
Nominal AC current [A]	7.2	8.7	11.6	14.5
Max. AC current [A]	8.0	9.6	12.8	15.9
Displacement power factor	0.8 leading 0.8 lagging			
THDi, rated power [%]	<3			
DC OUTPUT (BATTERY)				
Battery voltage range [V]	160-800			
Max.continuous charge/discharge current [A]	25			
Communication interfaces	CAN/RS485			
Reverse connect protection	Yes			
EPS OUTPUT (WITH BATTERY)				
EPS Max. continuous apparent power [VA]	5000	6000	8000	10000
EPS rated voltage [V],Frequency [Hz]	400/230VAC;380/220VAC; 50/60			
EPS Max.continuous current [A]	7.2	8.7	11.6	14.5
EPS peak apparent power [VA] Duration [s]	<10000 60	<12000 60	<14000 60	<15000 60
Changeover time [ms]	<1.5			
THDv, linear Load [%]	<2			
EFFICIENCY				
MPPT efficiency [%]	99.9			
Euro. efficiency [%]	97.0			
Max. efficiency [%]	97.8			
Battery charge/discharge efficiency [%]	97.0/96.0	97.0/96.0	97.5/96.5	97.5/96.5
POWER CONSUMPTION				
Standby consumption [W]	<25 for hot standby, <3 in cold standby			
STANDARD				
Safety	EN 62109-1/2			
EMC	EN 61000-6-1/2/3,EN 61000-3-2/3/11/12, Low Voltage Directive EU 2014/35, VDE-AR-N-4105			
ENVIRONMENT LIMIT				
Degree of protection(according to IEC60529)	IP65			
Operating temperature range [°C]	-20~+60 (Derating at>45)			
Max. operation altitude [m]	<2000			
Humidity [%]	0-100 (condensing)			
Storage temperature [°C]	-20~+60			
Typical noise emission [dB]	40			
DIMENSION AND WEIGHT				
Dimensions (WxHxD) [mm]	457*654*228			
Weight [kg]	45			
Cooling concept	Natural			
Communication interfaces	Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Remote Wi-Fi			
LCD display	Backlight 20*4 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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