TRIO HYBRID THREE PHASE INVERTER







3- Phase Unbalance Output



High Efficiency



Remote Monitoring



IP65 Rated

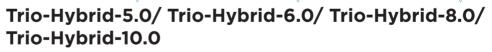


Hybrid Solution









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.



TRIO HYBRID (THREE PHASE)



CE

Map Mary power (%)		Trio-Hy-5.0	Trio-Hy-6.0	Trio-Hy-8.0	Trio-Hy-10	
Max. Input current from A Reput II	DC INPUT					
Nominal DC operating without PV 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720 720	Max. PV array power [Wp]	7500	9000	12000	15000	
Max. Incl. current (incust. Anjour B)	Max. DC voltage [V]	1(000	100	00	
Max. After scruet scrient proper (M)	Nominal DC operating voltage [V]	720		720		
MPFT 189 930	Max. input current (input A/input B) [A]	12/12		24/12		
Sant operations voltage V 180	Max. short circuit current (input A/input B) [A]	14/14				
No. of MPFIS	MPPT voltage range [V]	180-950		180-950		
Strings per MPPT	Start operating voltage [V]					
Max. Apparent AC power [VA] 5000 6000 8000 10000	No. of MPPTs	2				
Mas. spparent AC power (NA)	Strings per MPPT	1/1		2/1		
Max. AC current M	AC INPUT					
Nominal grid Vestlage M	Max. apparent AC power [VA]	5500	6000	8000	10000	
Nominal AC power [VA]	Max. AC current [A]	8.0	9.6	12.8	15.9	
Nominal AC power [VA]	Nominal grid voltage [V]	400/230;380/220				
Nominal AC power VA 5000 6000 8000 10000	Nominal grid Frequency [Hz]	_	50	/60		
Max apparent AC power A	IC OUTPUT					
Max. apparent AC power (NA)	Nominal AC power [VA]	5000	6000	8000	10000	
Mominal grid Industry Mominal grid Industry Mominal grid Industry Max Mominal Ac Current Al Max Ac Current		_				
Nominal prid frequency (Hz)						
Max. AC current [A]						
Max. AC current [A] 8.0 9.6 12.8 15.9		7.2			14.5	
THDi, rated power X				12.8		
THDi, rated power X	·					
Battery voltage range V 160-800 160-800				30 5		
Battery voltage range V	·					
Max.continuous charge/discharge current [A]		_	160	-800		
Communication interfaces Yes						
Reverse connect protection Yes						
PS OUTPUT (WITH BATTERY) S000 6000 8000 10000						
Source S	·	_	1	<u> </u>		
EPS rated voltage [V].Frequency [Hz]			6000	9000	10000	
PS Max.continuous current [A] 7.2 8.7 11.6 14.5					10000	
Changeover time ms		72			1/15	
Changeover time [ms]	2.2	_				
THDV, linear Load [%]					<13000 60	
### FICIENCY MPPT efficiency [%] 99.9 Euro. efficiency [%] 97.0 Max. efficiency [%] 97.0 Find the presented reading at part of the presentation at little de in little	3	_				
MPPT efficiency [%] 99.9 Euro. efficiency [%] 97.0 Max. efficiency [%] 97.0 Battery charge/discharge efficiency [%] 97.0/96.0 97.5/96.5 97.5/96.5 POWER CONSUMPTION 97.0/96.0 97.5/96.5 97.5/96.5 Standby consumption [W] < 25 for hot standby, <3 in cold standby Standby consumption [W]		-		-Σ		
Euro. efficiency % 97.0 97.8 97.8		_	0.0	2.0		
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] <a< td=""><td>-</td><td colspan="4"></td></a<>	-					
Standby consumption [W] <25 for hot standby, <3 in cold standby STANDARD Safety IEC62109-1/-2 EMC EN61000-6-1/EN61000-6-2/EN61000-6-3 ENVIRONMENT LIMIT Degree of protection(according to IEC60529) 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 Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem		070/000			075/22	
Standby consumption [W] <a hre<="" td=""><td>, , , , , , , , , , , , , , , , , , , ,</td><td>97.0/96.0</td><td>97.0/96.0</td><td>9/.5/96.5</td><td>97.5/96.5</td>	, , , , , , , , , , , , , , , , , , , ,	97.0/96.0	97.0/96.0	9/.5/96.5	97.5/96.5	
Safety IEC62109-1/-2 EMC EN61000-6-1/EN61000-6-2/EN61000-6-3 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] Cooling concept Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem	POWER CONSUMPTION					
Safety IEC62109-1/-2 EMC EN61000-6-1/EN61000-6-2/EN61000-6-3 ENVIRONMENT LIMIT Degree of protection(according to IEC60529) Operating temperature range [°C]	Standby consumption [W]		<25 for hot standby	y, <3 in cold standby		
EMC EN61000-6-1/EN61000-6-2/EN61000-6-3 ENVIRONMENT LIMIT Degree of protection(according to IEC60529) Operating temperature range [°C] Max. operation altitude [m] Humidity [%] Storage temperature [°C] Typical noise emission [dB] Dimensions (WxHxD) [mm] Dimensions (WxHxD) [mm] Weight [kg] Cooling concept Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem	STANDARD					
EMC EN61000-6-1/EN61000-6-2/EN61000-6-3 ENVIRONMENT LIMIT Degree of protection(according to IEC60529) Operating temperature range [°C] Max. operation altitude [m] Humidity [%] Storage temperature [°C] Typical noise emission [dB] Dimensions (WxHxD) [mm] Dimensions (WxHxD) [mm] Weight [kg] Cooling concept Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem	Safety	IEC62109-1/-2				
Degree of protection(according to IEC60529) Operating temperature range [°C] Max. operation altitude [m] Humidity [%] Storage temperature [°C] Typical noise emission [dB] DIMENSION AND WEIGHT Dimensions (WxHxD) [mm] Weight [kg] Cooling concept Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem	-		EN61000-6-1/EN610	000-6-2/EN61000-6-3		
Degree of protection(according to IEC60529) Operating temperature range [°C] Max. operation altitude [m] Humidity [%] Storage temperature [°C] Typical noise emission [dB] DIMENSION AND WEIGHT Dimensions (WxHxD) [mm] Weight [kg] Cooling concept Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem	ENVIRONMENT LIMIT					
Operating temperature range [°C] Max. operation altitude [m] Humidity [%] Storage temperature [°C] Typical noise emission [dB] DIMENSION AND WEIGHT Dimensions (WxHxD) [mm] Weight [kg] Cooling concept Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem			ın	265		
Max. operation altitude [m] <2000						
Humidity [%] Storage temperature [°C] Typical noise emission [dB] DIMENSION AND WEIGHT Dimensions (WxHxD) [mm] Weight [kg] Cooling concept Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem						
Storage temperature [°C] Typical noise emission [dB] DIMENSION AND WEIGHT Dimensions (WxHxD) [mm] Weight [kg] Cooling concept Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem	1 2 2					
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 / Rem	-					
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 / Rem						
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 / Rem				10		
Weight [kg] 45 Cooling concept Natural Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem		-		5.41000		
Cooling concept Communication interfaces Natural Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem		_				
Communication interfaces Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Rem		-				
LCD display Backlight 20*4 character		Ethernet / Trio Smart Meter /			ı / Mobile LAN / Remote	
Standard warranty [years] 5 (Extendable)	· · ·	-				

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

