

# TRIO HYBRID THREE PHASE INVERTER



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.

# TRIO HYBRID (THREE PHASE)



## Trio-Hy-5.0

## Trio-Hy-6.0

## Trio-Hy-8.0

## Trio-Hy-10.0

### DC INPUT

Max. PV array power [Wp]
Max. DC voltage [V]
Nominal DC operating voltage [V]
Max. input current (input A/input B) [A]
Max. short circuit current (input A/input B) [A]
MPPT voltage range [V]
Start operating voltage [V]
No. of MPPTs
Strings per MPPT

7500	9000	12000	15000
1000		1000	
720		720	
12/12		24/12	
14/14		28/14	
180-950		180-950	
180		180	
2		2	
1/1		2/1	

### AC INPUT

Max. apparent AC power [VA]
Max. AC current [A]
Nominal grid voltage [V]
Nominal grid Frequency [Hz]

5500	6000	8000	10000
8.0	9.6	12.8	15.9
400/230;380/220			
50/60			

### AC OUTPUT

Nominal AC power [VA]
Max. apparent AC power [VA]
Nominal grid voltage [V]
Nominal grid frequency [Hz]
Nominal AC current [A]
Max. AC current [A]
Displacement power factor
THDi, rated power [%]

5000	6000	8000	10000
5500	6600	8800	11000
400/230;380/220			
50/60			
7.2	8.7	11.6	14.5
8.0	9.6	12.8	15.9
0.8 leading 0.8 lagging			
<3			

### DC OUTPUT (BATTERY)

Battery voltage range [V]
Max.continuous charge/discharge current [A]
Communication interfaces
Reverse connect protection

160-800
25
CAN/RS485
Yes

### EPS OUTPUT (WITH BATTERY)

EPS Max. continuous apparent power [VA]
EPS rated voltage [V],Frequency [Hz]
EPS Max.continuous current [A]
EPS peak apparent power [VA] Duration [s]
Changeover time [ms]
THDv, linear Load [%]

5000	6000	8000	10000
400/230VAC;380/220VAC; 50/60			
7.2	8.7	11.6	14.5
<10000 60	<12000 60	<14000 60	<15000 60
<1.5			
<2			

### EFFICIENCY

MPPT efficiency [%]
Euro. efficiency [%]
Max. efficiency [%]
Battery charge/discharge efficiency [%]

				99.9
				97.0
				97.8
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
EMC

IEC62109-1/-2
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]

IP65
-20~+60 (Derating at>45)
<2000
0-100 (condensing)
-20~+60
40

### DIMENSION AND WEIGHT

Dimensions (WxHxD) [mm]
Weight [kg]
Cooling concept
Communication interfaces
LCD display
Standard warranty [years]

457*654*228
45
Natural
Ethernet / Trio Smart Meter / USB / ISO Alarm / CAN / BMS / NTC / Optional: Mobile Wi-Fi / Mobile LAN / Remote Wi-Fi
Backlight 20*4 character
5 (Extendable)