



## 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**



Our TOMMATECH Trio-Hybrid three phase inverter with a max efficiency of 97.8% are the preferred solution for commercial projects as they support unbalanced output, are equipped with dual protection for the inbuilt BMS and can be controlled remotely through multiple communication options. Furthermore, TOMMATECH Trio-Hybrid inverters can be installed in parallel allowing for up to 100KW and over 250kWh of storage.

	Trio-Hy-5.0	Trio-Hy-6.0	Trio-Hy-8.0	Trio-Hy-10.0
<b>INPUT (DC)</b>				
Max.PV array power [Wp]	7500	9000	12000	15000
Max.DC voltage [V]	1000	1000	1000	1000
Nominal DC operating voltage [V]	720	720	720	720
Max. input current (input A/input B) [A]	12/12	12/12	24/12	24/12
Max. short circuit current (input A/input B) [A]	14/14	14/14	28/14	28/14
MPPT voltage range[V]	180-950	180-950	180-950	180-950
Start operating voltage[V]	180	180	180	180
No. of MPP trackers	2	2	2	2
Strings per MPP tracker	1/1	1/1	2/1	2/1
<b>INPUT AC</b>				
Max. apparent AC power[VA]	5500	6000	8000	10000
Max. AC current[A]	8.0	9.6	12.8	15.9
Nominal grid voltage(AC voltage range)[V]	400/230;380/220	400/230;380/220	400/230;380/220	400/230;380/220
Nominal grid Frequency/range[Hz]	50/60	50/60	50/60	50/60
<b>OUTPUT AC</b>				
Nominal AC power [VA]	5000	6000	8000	10000
Max. apparent AC power [VA]	5500	6600	8800	11000
Nominal grid voltage(AC voltage range) [V]	400/230;380/220			
Nominal grid frequency/range [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			
<b>OUTPUT DC (BATTERY)</b>				
Battery voltage range [V]	160-800			
Max.continuous charge/discharge current [A]	25			
Communication interfaces	CAN/RS485			
Reverse connect protection	Yes			
<b>EPS OUTPUT (WITH BATTERY)</b>				
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			
<b>EFFICIENCY</b>				
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
<b>POWER CONSUMPTION</b>				
Standby consumption (Night) [W]	<25 for hot standby, <3 in cold standby			
<b>STANDARD</b>				
Safety	IEC62109-1/-2			
EMC	EN61000-6-1/EN61000-6-2/EN61000-6-3			
Certification	VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / G98 / AS4777 / EN50549 / CEI 0-21 / and so on			
<b>ENVIRONMENT LIMIT</b>				
Degree of protection(according to IEC60529)	IP65			
Operating temperature range [OC]	-20~+60 (derating at+45)			
Max. operation altitude [m]	<2000			
Humidity [%]	0-100 (condensing)			
Storage temperature [OC]	-20~+60			
Typical noise emission [dB]	40			
<b>DIMENSION AND WEIGHT</b>				
Dimensions(WxHxD) [mm]	457*654*228			
Weight[kg]	45			
Cooling concept	Natural			
Topology	Non-isolated			
Communication interfaces	Ethernet/Meter/Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/DRM/USB/ISO alarm/CAN/BMS/NTC			
LCD display	Backlight 20*4 character			
Standard warranty [years]	5-10			