



Three Phase Hybrid Inverter
Trio Hybrid K-Series
5.0/ 6.0/ 8.0/ 10.0/ 12.0/ 15.0

Simple. Reliable. Efficient.



3- Phase
Unbalanced Output



High
Efficiency



Remote
Monitoring



IP65
Rated



Hybrid
Solution

5.0kW

6.0kW

8.0kW



**Trio-Hybrid-K-5.0/ Trio-Hybrid-K-6.0/ Trio-Hybrid-K-8.0/
Trio-Hybrid-K-10.0/ Trio-Hybrid-K-12.0/ Trio-Hybrid-K-15.0**

TommaTech®'s Trio-Hybrid K-Series three phase inverters are the preferred solution for both residential and commercial projects as they support unbalanced phase output, are equipped with dual protection for the BMS and can be controlled remotely through multiple communication options. The inverters, which are available in six power options between 5.0kW and 15.0kW can be equipped with up to 46kWh storage, each. Furthermore, they can be installed in parallel allowing for solutions of up to 150kWh and 460kWh storage.



Trio-Hy-K-5.0
Trio-Hy-K-6.0
Trio-Hy-K-8.0
Trio-Hy-K-10.0
Trio-Hy-K-12.0
Trio-Hy-K-15.0

DC INPUT	Trio-Hy-K-5.0	Trio-Hy-K-6.0	Trio-Hy-K-8.0	Trio-Hy-K-10.0	Trio-Hy-K-12.0	Trio-Hy-K-15.0
Max. PV Array Input Power [Wp]	8000	10000	12000	15000	18000	18000
Max. PV input Voltage [V]	1000		1000			
Start Output Voltage [V]	200		200			
Nominal Input Voltage [V]	640		640			
MPPT Voltage Range [V]	180~950		180~950			
Number of MPPT / Strings per MPPT	2(1/1)		2(2/1)			
Max. Input Current (MPPT A / MPPT B) [A]	16/16		26/16			
Max. Short Circuit Current (MPPT A / MPPT B) [A]	20/20		30/20			
AC INPUT & OUTPUT						
Nominal AC Output Power [W]	5000	6000	8000	10000	12000	15000
Max. AC Output Apparent Power [VA]	5500	6600	8800	11000	13200	15000
Max. AC Output Current [A]	8.1	9.7	12.9	16.1	19.3	24.1
Max. AC Input Apparent Power [VA]	10000	12000	16000	20000	20000	20000
Max. AC Input Current [A]	16.1	19.3	25.8	32.0	32.0	32.0
Nominal AC Voltage [V]	415/240; 400/230; 380/220					
Nominal Grid Frequency [Hz]	50/60					
Displacement Power Factor	0.8 Leading~0.8 Lagging					
THDi (Rated Power) [%]	<3					
BATTERY DATA						
Battery Type	Li-ion Battery					
Battery Voltage Range [V]	180~800					
Max. Continuous Charge/Discharge Current [A]	30					
EPS OUTPUT (WITH BATTERY)						
Nominal Output Power [W]	5000	6000	8000	10000	12000	15000
Peak Apparent Power [VA]	7500,60s	9000,60s	12000,60s	15000,60s	15000,60s	16500,60s
Max. Continous Current [A]	7.2	8.7	11.6	14.5	17.5	21.8
Nominal Voltage [V]; Frequency [Hz]	400/230; 50/60					
Switch Time [ms]	<10					
Parallel Operation	Yes					
SYSTEM DATA						
Max. Efficiency [%]	98.0					
Euro. Efficiency [%]	97.7					
Battery Charge/Discharge Efficiency [%]	98.5/97.5					
Standby Consumption [W]	<5W For Cold Standby					
Ingress Protection	IP65					
Operating Temperature Range [°C]	-35~60 (Derating at>45, Charge Derating at>35)					
Max. Operation Altitude [m]	3000					
Humidity [%]	0~100					
Typical Noise Emission [dB]	<35		<45			
Storage Temperature [°C]	-40~+70					
Dimensions [WxHxD] [mm]	503x503x199					
Net Weight [kg]	30					
Cooling Concept	Natural Cooling			Smart Cooling		
Communication Interfaces	CT/ Trio Smart Meter/Dongle Wifi / Dongle LAN /Dongle 4G/ USB/ RS485 / DRM					
STANDARD						
Safety	EN/IEC62109-1/-2					
EMC	EN61000-6-1/2/3/ 4; EN61000-3-2/3/11/12					