



Three Phase Hybrid Inverter
Trio - Hybrid - K
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 150kW 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 in Put Voltage [V]				1000		
Start Output Voltage [V]				200		
Nominal Input Voltage [V]				640		
MPP Voltage Range [V]				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]		18/18			30/18	
AC INPUT & OUTPUT	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
Nominal AC Output Power [W]	5000	6000	8000	10000	12000	15000(14000 for PEA)
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/Grid Frequency Range [Hz]			50/60			
Power Factor			0.8 Leading~0.8 Lagging			
THDi (Rated Power) [%]			<3			
BATTERY DATA	Li-ion Battery					
Battery Type	Li-ion Battery					
Battery Voltage Range [V]	180~650					
Max. Continuous Charge/Discharge Current [A]	30					
EPS OUTPUT (WITH BATTERY)	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
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	98.0					
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/ Meter/ Wi-Fi / LAN Dongle (Optional)/ DRM/ USB/ RS485					
STANDARD	EN/IEC62109-1/-2					
Safety	EN/IEC62109-1/-2					
EMC	EN61000-6-1/2/3/ 4; EN61000-3-2/3/11/12					

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