



Three Phase String Inverter **Trio - Force** **40 / 50 / 60**

Simple. Reliable. Efficient.



High
Efficiency



Wide Product
Range



Remote
Monitoring



IP66
Rated



High
PV Voltage

40 kW

50 kW

Trio-Force-40kW / Trio-Force-50kW / Trio-Force-60kW



TommaTech Trio-Force Series Three Phase String Inverters stand out among their competitors in commercial use with their quality and reliability. The series, which is offered with 3 power options as 40kW, 50kW and 60kW, enables everyone to benefit from solar energy at the highest level by providing a maximum efficiency of 98.4% with its wide MPPT voltage range from 180V to 1000V. TommaTech Force Series Inverters with smart fan technology come with the features of IP66 protection class. There is also a Wi-Fi option for remote monitoring.

Trio-F-40

Trio-F-50

Trio-F-60

DC INPUT

Max. PV Array Input Power [kWp]	60	75	90
Max. PV Input Voltage [V]		1100	
Startup Voltage [V]		200	
Nominal Input Voltage [V]		600	
MPP Tracker Voltage Range [V]		180~1000	
No. of MPP Trackers	5	5	6
Strings Per MPP Tracker	2	2	2
Max. Input Current Per MPPT [A]		32	
Max. Short Circuit Current Per MPPT [A]		46	

AC OUTPUT

Nominal AC Output Power [kW]	40	50	60
Nominal AC Output Current [A]	60.6	75.8	90.9
Max. AC Output Apparent Power [kVA]	44	55	66
Max. AC Output Current [A]	66.7	83.3	100.0
Nominal AC Voltage [V]	230/400, 3~/N/PE, 3~/PE		
Nominal Grid Frequency [Hz]	50/60		
Displacement Power Factor	0.8 Leading ~ 0.8 Lagging		
THDi (Rated Power) [%]	<3		

SYSTEM DATA

Max. Efficiency [%]	98.4		
Euro. Efficiency [%]	98.1		
Standby Consumption [W] @Night	<2		
Ingress Protection	IP66		
Operating Temperature Range [°C]	-25~+60 (Derating Above 45)		
Max. Operation Altitude [m]	4000 (Derating Above 3000)		
Humidity [%]	0~100		
Dimensions[WxHxD] [mm]	630x521x286		
Weight [kg]	43.3	43.3	43.8
Cooling Concept	Smart Fan Cooling		
Communication Interfaces	USB/RS485/ Pocket Wi-Fi/ Pocket 4G (Optional) / Bluetooth		

STANDARD

Over/Under Voltage Protection	Yes		
Over Current Protection	Yes		
DC Isolation Protection	Yes		
Grid Monitoring	Yes		
DC Injection Monitoring	Yes		
Residual Current Detection	Yes		
Anti-Islanding Protection	Yes		
String Fault Detection	Yes		
Over Temp Protection	Yes		
SPD	Type II		
ARC	Optional		
Safety	EN62109-1/-2		
EMC	EN61000-6-1; EN61000-6-2; EN61000-6-3; EN61000-3-12; EN61000-3-11		

* TommaTech GmbH reserves the right to change the specification of product without prior notice.