



Three Phase Hybrid Inverter
Trio Hybrid Maxi Series
100 / 125

Store. Manage. Dominate.



3 Phase
Unbalanced
Output



AC
Coupling



Up to 10
Units Parallel



200A
Charge /
Discharge



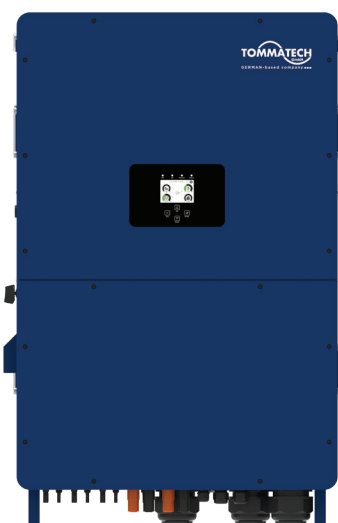
High-Voltage
Battery



Dual HV
Battery
Input



Generator
Compatibility



100k

125K

INV-TT-TF-M100K / INV-TT-TF-M125K

The three-phase TommaTech® Maxi Series M100/125K hybrid inverters are ideal solutions for commercial and industrial applications. With ten MPPTs, they offer high efficiency and, thanks to their IP65 protection rating, are also suitable for outdoor use. The inverters can also be remotely monitored and controlled, and by connecting up to 10 units in parallel, their capacity can be expanded to up to 1MW. Furthermore, the Maxi Series offers a flexible and powerful energy management solution with highly efficient battery integration and support for off-grid operation.



INV-TT-TF-M100K

INV-TT-TF-M125K

PV Series Input Data

Max. PV Access Power (W)	200000	250000
Maximum PV Input Power	160000	200000
Maximum PV Input Voltage		1000
Starting Voltage		180
MPPT Voltage Range		150-850
Nominal PV Input Voltage		650
Maximum Operating PV Input Current		42+42+42+42+42+42+42+42+42+42
Maximum Short-Circuit Current		63+63+63+63+63+63+63+63+63+63
Number of MPPT trackers / Number of strings per MPPT		10/2+2+2+2+2+2+2+2+2+2

AC Input/Output Data

Nominal AC Input/Output Active Power (W)	100000	125000
Max. AC Input/Output Apparent Power (VA)	110000	135000
Nominal AC Input/Output Current (A)	151.6/145.0	189.4 / 181.2
Max. AC Input/Output Current (A)	166.7/159.5	204.6 / 195.7
Max. Continuous AC Transient (Mains to load) (A)		250
Power Factor Adjustment Range		0.8 leading to 0.8 lagging
Nominal Input/Output Voltage / Range (V)		220/380V, 230/400V
Nominal Input/Output Mains Frequency/Range (Hz)		50/45-55, 60/55-65
Network Connection Form		3L+N+PE
Total Current Harmonic Distortion		<3% (Nominal Power)
DC Injection Current		<0.5% In

Battery Input Data

Battery Type		Lithium-ion
Battery Voltage Range		160-1000
Maximum Charge Current		100+100
Maximum Discharge Current		100+100
Charging Strategy for Lithium Batteries		Automatic Compatibility with BMS
Number of Battery Inputs		2

Efficiency

Maximum Efficiency		98.70%
European Efficiency		98.10%
MPPT Efficiency		99%

Equipment Protection

Integrated	DC Reverse Polarity Protection, AC Output Overcurrent, Thermal Protection, AC Output Overvoltage Protection, AC Output Short-Circuit Protection, DC Component Monitoring, Island Mode Protection Monitoring, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection	
Surge Protection Level	TYPE II (DC), TYPE II (AC)	

Interface

LCD / LED Display		LCD+LED
Communication Interface		RS485, RS232, CAN
Monitoring Mode		GPRS/WIFI/Bluetooth/4G/LAN (Optional)

General Data

Operating Temperature Range		-40 to +60°C, >45°C Derating
Permissible Ambient Humidity		0-100%
Permissible Altitude		3000m
Noise		≤ 65 dB(A)
Protection Class (IP)		IP65
Overvoltage Category		Non isolated
Inverter Topology		OVC II (DC), OVC III (AC)
Cabin Dimensions (WxHxD)		734x1091x344 Excluding Connectors and Brackets
Cooling Type		Intelligent Air Cooling
Warranty		5 Years
Mains Regulation		IEC 61727, IEC 62116, EN 50549,
Safety / EMC Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2