



DATASHEET

TRIO-M-10 KVA-2 | TRIO-M-15 KVA-2 | TRIO-M-20 KVA-2 | TRIO-M-25 KVA-2

Designed and manufactured by







TRIO-M-10 KVA-2, TRIO-M-15 KVA-2, TRIO-M-20 KVA-2, TRIO-M-25 KVA-2

Efficiency	TRIO-M-10 KVA-2	TRIO-M-15 KVA-2	TRIO-M-20 KVA-2	TRIO-M-25 KVA-2
Max. Efficiency	98,3%	98,4%	98,4%	98,4%
EU. Efficiency	97,8%	98,0%	98,0%	98,0%
Input (PV)				
Max. Input Voltage	1100 V	1100 V	1100 V	1100 V
Max. PV configuration (STC)	160,00%	160,00%	160,00%	160,00%
Max. PV Power (W)	16000 W	24000	32000	40000
Rated Input Voltage	620 V	620 V	620 V	620 V
Max. Input Current	30A + 15A	2*30A	2*30A	2*30A
Max. Short Circuit Current	40A + 20A	2*40A	2*40A	2*40A
Start Input Voltage	180V	180V	180V	180V
MPPT Operating Voltage Range	160V - 1000V	160V - 1000V	160V - 1000V	160V - 1000V
Max. Number of PV Strings	3 (2/1)	4 (2/2)	4 (2/2)	4 (2/2)
No. of MPPTs	2	2	2	2
Output (Grid)				
Rated AC Active Power	10000 W	15000 W	20000 W	25000 W
Max. AC Apparent Power	11000 VA	16500 VA	22000 VA	25000 VA
Max. AC Active Power (PF=1)	11000 W	16500 W	22000 W	25000 W
Max. AC Output Current	3*16,8A	3*25,3A	3*33,7A	3*39,8A
Rated AC Voltage	380V/400V/415V,3W + N + PE	380V/400V/415V,3W + N + PE	380V/400V/415V,3W + N + PE	380V/400V/415V,3W + N + PR
AC Voltage Range (1)	260V-510V (Adjustable)	260V-510V (Adjustable)	260V-510V (Adjustable)	260V-510V (Adjustable)
Rated Grid Frequency	50 Hz / 60 Hz			
Grid Frequency Range (2)	45Hz-55Hz / 55 Hz-65 Hz (Adjustable)			
THDI	<3%@Rated Power	<3%@Rated Power	<3%@Rated Power	<3%@Rated Power
DC Current Injection	<0,5%@Rated Current	<0,5%@Rated Current	<0,5%@Rated Current	<0,5%@Rated Current
Power Factor	>0,99 Rated Power (Adjustable 0,8 LD-0,8 LG)	>0,99 Rated Power (Adjustable 0,8 LD-0.8 LG)	>0,99 Rated Power (Adjustable 0,8 LD-0,8 LG)	>0,99 Rated Power (Adjustable 0,8 LD-0,8 LG)

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Packaging & logistics General Transformerless Carton packaging dimension $(W \times H \times D)$ Topology 500 x 470 x 361 mm IP Rating IP66 Night Self Consumption < 1 WG.W. (Gross Weight) 26,5 Natural Cooling Qty per pallet (pcs) 8+12 Operating Temperature Range -25°C - 60°C 1200 x 1000 x 2063 mm Pallet Dimension (W x H x D) Relative Humidity Range 0 - 100 % Pallet m³ (CBM) 2.5 m³ Max. Operating Altitude 4000 m 20 ft cont. Pallet Qty (Plt) / 20 pallets / 180 pallets Noise (typical) <45 dB product Qty (pcs) 398 x 460 x 190 mm Dimensions (W x H x D) 40 ft cont. Pallet Qty (Plt) / 40 pallets / 400 pallets N.W. (Netto Weight) 23 kg product Qty (pcs)







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DC switch Anti-islanding protection AC Overcurrent protection AC short current protection	Support Support Support Support Support AC Type III (Type II optional) / DC		
DC reverse connection Surge Arrester			
Insulation detection Leakage current protection	Type III (Type II Optional) Support Support		
HMI & COM			
Display Communication	Wireless & APP + LED, LCD (Optional) RS485, Optional WiFi / GPRS / 4G		
Warranty			
	5 years, 10 years when installed by Darwin registered installer		
Certification			
Safety Grid Code	IEC62109-1, IEC62109-2 VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, UNE 217001 IEC 61727/62116, AS4777.2		





