



Three Phase Dual MPPT Inverter
Trio - Plus
8.0/ 10.0/ 12.0/ 15.0

Simple. Reliable. Efficient



High
Efficiency



Wide Product
Range



Remote
Monitoring



IP65
Rated



High
PV Voltage

8.0kW

10.0kW

12.0kW

**Trio-Plus-8.0/ Trio-Plus-10.0/ Trio-Plus-12.0/
Trio-Plus-15.0**



Our Trio-Plus range of Dual MPPT string inverters with a maximum efficiency of 98.3% are unrivalled in the industry for their quality, reliability as well as Software and Hardware protection, boasting two MPPTs with a wide PV input voltage ranging up to 1000V, to allow for more solar energy harvesting. Additionally, the three phase inverters have no internal fan, can optionally be monitored online with our mobile Wi-Fi accessory and are IP65 rated, thus allowing for outside installation.

	Trio-P-8.0	Trio-P-10.0	Trio-P-12.0	Trio-P-15.0P
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INPUT (DC)

Max.PV array power [Wp]	12000	15000	18000	22500
Max.DC voltage [V]	1000	1000	1000	1000
Nominal DC operating voltage [V]	600	600	600	600
Max. input current [A]	12/24	12/24	12/24	12/24
Max. short circuit current [A]	14/28	14/28	14/28	14/28
MPPT voltage range[V]	160-850	160-850	160-850	160-850
Start operating voltage[V]	180	180	180	180
No. of MPP trackers	2	2	2	2
Strings per MPP tracker	1/2	1/2	1/2	1/2

OUTPUT AC

Nominal AC power [VA]	8000	10000	12000	15000
Max. AC power [VA]	8800	11000	13200	16500
Nominal grid voltage(AC voltage range) [V]	3/N/PE, 230/400(310-480)			
Nominal grid frequency/range [Hz]	50/60;±5			
Nominal AC current [A]	11.6	14.5	17.4	21.7
Max. AC current [A]	12.8	15.9	19.1	23.9
Displacement power factor	0.8leading-0.8lagging			
THDi, rated power [%]	<3			

EFFICIENCY

MPPT efficiency [%]	99.9			
Euro efficiency [%]	97.8			
Max. efficiency [%]	98.3			

POWER CONSUMPTION

Standby consumption (Night) [W]	<3			
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STANDARD

Over voltage protection	YES			
Over current protection	YES			
DC isolation impedance monitoring	YES			
Ground fault current monitoring	YES			
DC injection monitoring	YES			
RCD protection	YES			
Safety	EN62109-1/-2			
EMC	EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-12;EN61000-3-11			
Certification	VDE4105; AS4777; EN50549; IEC61727			

ENVIRONMENT LIMIT

Degree of protection(according to IEC60529)	IP65			
Operating temperature range [OC]	-25~+60(derating at 45)			
Max. operation altitude [m]	<2000			
Humidity [%]	0~100 (condensing)			
Storage temperature [OC]	-25~60			
Typical noise emission [dB]	<45			

DIMENSION AND WEIGHT

Dimensions(WxHxD) [mm]	534*419*179			
Weight[kg]	32			
Cooling concept	Forced-cooling			
Topology	Non-isolated			
Communication interfaces	RS485/DRM/Pocket WiFi(optional)/Pocket LAN (optional)/Pocket GPRS (optional)/Meter (optional)/USB-upgrade			
LCD display	Backlight 16*4 character			
Standard warranty [years]	5/10(optional)			