



X3-MIC (THREE PHASE) *(T For Dual MPPT S For Single MPPT)*

	X3-4.0-T	X3-5.0-T	X3-6.0-T	X3-7.0-T	X3-8.0-T	X3-9.0-T	X3-10.0-T	X3-4.0-S	X3-5.0-S
INPUT (DC)									
Max.PV array power [Wp]	5200	6500	7800	8400	9600	10800	12000	4800	6000
Max.DC voltage [V]	800	800	800	1000	1000	1000	1000	1000	1000
Nominal DC operating voltage [V]	600	600	600	600	600	600	600	600	600
Max. input current [A]	11/11	11/11	11/11	11/11	11/11	11/11	11/11	11	11
Max. short circuit current [A]	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14	14
MPPT voltage range[V]	160-750	160-750	160-750	160-900	160-900	160-900	160-900	160-900	160-900
Start operating voltage[V]	180	180	180	180	180	180	180	180	180
No. of MPP trackers	2	2	2	2	2	2	2	1	1
Strings per MPP tracker	1	1	1	1	1	1	1	1	1
OUTPUT AC									
Nominal AC power [VA]	4000	5000	6000	7000	8000	9000	10000	4000	5000
Max. AC power [VA]	4000	5000	6000	7000	8000	9000	10000	4000	5000
Nominal grid voltage(AC voltage range) [V]	3/N/PE, 3/PE, 230/400(310-480)						3/N/PE, 3/PE, 230/400(310-480)		
Nominal grid frequency/range [Hz]	50/60;±5						50/60;±5		
Nominal AC current [A]	5.8	7.2	8.7	10.1	11.6	13.0	14.5	5.8	7.2
Max. AC current [A]	6.4	8.0	9.6	11.2	12.8	14.4	16.0	6.4	8.0
Displacement power factor	0.8leading-0.8lagging						0.8leading-0.8lagging		
THDi, rated power [%]	<2						<2		
EFFICIENCY									
MPPT efficiency [%]	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Euro efficiency [%]	97.8	97.8	97.8	98	98	98	98	97.8	97.8
Max. efficiency [%]	98.3	98.3	98.3	98.4	98.4	98.5	98.5	98.3	98.3
POWER CONSUMPTION									
Standby consumption [W]	<3						<3		
STANDARD									
Over voltage protection	YES						YES		
Over current protection	YES						YES		
DC isolation impedance monitoring	YES						YES		
Ground fault current monitoring	YES						YES		
DC injection monitoring	YES						YES		
RCD protection	YES						YES		
Safety	EN62109-1/-2						EN62109-1/-2		
EMC	EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3						EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3		
Certification	AS4777.2-2015; VDE4105; G98; G99; EN50438; CEI0-21						AS4777.2-2015; VDE4105; G98; G99; EN50438; CEI0-21		
ENVIRONMENT LIMIT									
Degree of protection(according to IEC60529)	IP65						IP65		
Operating temperature range [°C]	-25~+60(derating at 45)						-25~+60(derating at 45)		
Max. operation altitude [m]	2000						2000		
Humidity [%]	0~100,condensing						0~100,condensing		
Storage temperature [°C]	-25~60						-25~60		
Typical noise emission [dB]	<35						<35		
DIMENSION AND WEIGHT									
Dimensions(WxHxD) [mm]	534*419*201						534*419*201		
Weight[kg]	23	23	23	26	26	26	22	22	28
Cooling concept	Natural						Natural		
Topology	Transformerless						Transformerless		
Communication interfaces	RS485 /DRM / WiFi(optional) / LAN (optional) /Meter (optional) / USB-Upgrade						RS485 /DRM / WiFi(optional) / LAN (optional) /Meter (optional) / USB-Upgrade		
LCD display	Backlight 20*4 character						Backlight 20*4 character		
Standard warranty [years]	5-10						5-10		



Features:

- Secure & reliable with software and hardware protection
- Maximum efficiency up to 98.3%, Euro efficiency up to 97.8%
- Wide MPPT voltage range & Two independent MPPT (three strings)
- Enclosure Rating-IP65
- Multiple protections: Over voltage / under voltage, earth protection, anti-islanding, overload, over temperature and RCD protection, etc.



X3-PRO (THREE PHASE)

X3-8.0P

X3-10.0P

X3-12.0P

X3-15.0P

INPUT (DC)

Max.PV array power [Wp]	A:3200/B:6400	A:4000/B:8000	A:4800/B:9600	A:6000/B:12000
Max.DC voltage [V]	1000	1000	1000	1000
Nominal DC operating voltage [V]	600	600	600	600
Max. input current [A]	10/20	10/20	10/20	10/20
Max. short circuit current [A]	12/24	12/24	12/24	12/24
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	A:1/B:2	A:1/B:2	A:1/B:2	A:1/B:2

OUTPUT AC

Nominal AC power [VA]	8000	10000	12000	15000
Max. AC power [VA]	8000	10000	12000	15000
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	16	19.2	23.8
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 [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; AS/NZS4777.7; NB/T32004; EN50438; IEC61727

ENVIRONMENT LIMIT

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

DIMENSION AND WEIGHT

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