



X1-MINI (SINGLE PHASE)

X1-0.7

X1-1.1

X1-1.5

X1-2.0

INPUT (DC)				
Max.PV array power [Wp]	840	1250	1650	2200
Max.DC voltage [V]	400	400	400	400
Nominal DC operating voltage [V]	360	360	360	360
Max. input current [A]	10	10	10	10
Max. short circuit current [A]	12	12	12	12
MPPT voltage range[V]	55-380	55-380	55-380	55-380
Start operating voltage[V]	70	70	70	70
No. of MPP trackers	1	1	1	1
Strings per MPP tracker	1	1	1	1
OUTPUT AC				
Nominal AC power [VA]	700	1100	1500	2000
Max. AC power [VA]	700	1100	1500	2000
Nominal grid voltage(AC voltage range) [V]	220/230/240; 180~280			
Nominal grid frequency/range [Hz]	50/60; ±5			
Nominal AC current [A]	3,04	4,78	6,52	8,70
Max. AC current [A]	3,5	5,5	7,5	9,5
Displacement power factor	0,8 leading ~ 0,8 lagging			
THDi, rated power [%]	<3			
EFFICIENCY				
MPPT efficiency [%]	99,9			
Euro efficiency [%]	95	95,5	96	96,5
Max. efficiency [%]	97,1			
POWER CONSUMPTION				
Standby consumption (Night) [W]	<1			
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	IEC62109-1/-2			
EMC	EN61000-6-1;EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3			
Certification	G98; SAA 4777; VDE4105; EN50549; CEIO-21			
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 (condensation)			
Storage temperature [°C]	-25~+60			
Typical noise emission [dB]	25			
DIMENSION AND WEIGHT				
Dimensions(WxHxD) [mm]	267*328*116			
Weight[kg]	6			
Cooling concept	Natural			
Topology	Non-isolated			
Communication interfaces	Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-Upgrade			
LCD display	Yes			
Standard warranty [years]	5-10			



X1-AIR (SINGLE PHASE)

X1-2.5

X1-3.0

X1-3.3

INPUT (DC)			
Max.PV array power [Wp]	2700	3200	3450
Max.DC voltage [V]	600	600	600
Nominal DC operating voltage [V]	360	360	360
Max. input current [A]	10	10	10
Max. short circuit current [A]	12	12	12
MPPT voltage range[V]	70-580	70-580	70-580
Start operating voltage[V]	80	80	80
No. of MPP trackers	1	1	1
Strings per MPP tracker	1	1	1
OUTPUT AC			
Nominal AC power [VA]	2500	3000	3300
Max. AC power [VA]	2500	3000	3300
Nominal grid voltage(AC voltage range) [V]	220/230/240; 180~280		
Nominal grid frequency/range [Hz]	50/60; ±5		
Nominal AC current [A]	10,8	13,0	14,3
Max. AC current [A]	12	14	15
Displacement power factor	0,8 leading ~ 0,8 lagging		
THDi, rated power [%]	<2		
EFFICIENCY			
MPPT efficiency [%]	99,9		
Euro efficiency [%]	96,8		
Max. efficiency [%]	97,1		
POWER CONSUMPTION			
Standby consumption (Night) [W]	<1		
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	EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3		
Certification	G98;AS4777.2;VDE4105; EN50549; CEI0-21		
ENVIRONMENT LIMIT			
Degree of protection(according to IEC60529)	IP65		
Operating temperature range [°C]	-25~+60(derating at 45)		
Max. operation altitude [m]	0~100 (condensation)		
Humidity [%]	2000		
Storage temperature [°C]	-25~60		
Typical noise emission [dB]	25		
DIMENSION AND WEIGHT			
Dimensions(WxHxD) [mm]	323*402*119		
Weight[kg]	10,5		
Cooling concept	Natural		
Topology	Transformerless		
Communication interfaces	Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-Upgrade		
LCD display	Yes		
Standard warranty [years]	5-10		



X1-BOOST (SINGLE PHASE)

X1-3.0T**X1-3.3T****X1-3.6T****X1-4.2T****X1-4.6T****X1-5.0T**

INPUT (DC)

Max.PV array power [Wp]	3250	3500	4000	4600	5200	5200
Max.DC voltage [V]	600	600	600	600	600	600
Nominal DC operating voltage [V]	360	360	360	360	360	360
Max. input current [A]	12/12	12/12	12/12	12/12	12/12	12/12
Max. short circuit current [A]	12.8/12.8	12.8/12.8	12.8/12.8	12.8/12.8	12.8/12.8	12.8/12.8
MPPT voltage range[V]	70-580	70-580	70-580	70-580	70-580	70-580
Start operating voltage[V]	100	100	100	100	100	100
No. of MPP trackers	2	2	2	2	2	2
Strings per MPP tracker	1	1	1	1	1	1

OUTPUT AC

Nominal AC power [VA]	3000	3300	3680	4200	4600	5000 (4600 for VDE4105)
Max. AC power [VA]	3000	3300	3680	4200	4600	5000 (4600 for VDE4105)
Nominal grid voltage(AC voltage range) [V]	220/230/240; 180~280					
Nominal grid frequency/range [Hz]	50/60; ±5					
Nominal AC current [A]	13	14.3	16	18.3	20	21.7 (20 for VDE4105)
Max. AC current [A]	14	15	16.8(16 for G98)	19	21	22.7 (21.7 for AS4777)
Displacement power factor	0.8 leading ~ 0.8 lagging					
THDi, rated power [%]	<2					

EFFICIENCY

MPPT efficiency [%]	99.9					
Euro efficiency [%]	97.0					
Max. efficiency [%]	97.8					

POWER CONSUMPTION

Standby consumption (Night) [W]	<1					
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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	IEC62109-1/-2					
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3					
Certification	VDE4105 /G98 / G99/ AS4777 / EN50549 / CEI0-21					

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 (condensation)					
Storage temperature [°C]	-25~+60					
Typical noise emission [dB]	25					

DIMENSION AND WEIGHT

Dimensions(WxHxD) [mm]	341.5*430*143					
Weight[kg]	13.5	13.5	13.5	14.5	14.5	14.5
Cooling concept	Natural					
Topology	Non-isolated					
Communication interfaces	Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/Meter(optional)/RS485/DRM/USB-Upgrade					
LCD display	Yes					
Standard warranty [years]	5-10					