

Single Phase
AC Coupled

X1-AC

High Voltage



Simple.
Reliable.
Efficient



High
Efficiency



Battery
Solution



IP65
Rated



Remote
Monitoring

3kW

3.6kW

4.6kW

5kW

X1-AC-3.0 / X1-AC-3.6 / X1-AC-4.6 / X1-AC-5.0

(Being developed)

(Being developed)

Features:

- Natural Cooling, quiet and low maintenance
- Max Efficiency up to 97%
- Multiple protection: RCD, isolation, over voltage
over temperature, earth protection, short-circuit protection, etc
- Compatible with High-voltage batteries
- Transformerless design with software and hardware protection.





X1-AC (SINGLE PHASE)

	X1-AC-3.0	X1-AC-3.6	X1-AC-4.6 (Being developed)	X1-AC-5.0 (Being developed)
OUTPUT (AC)				
Nominal AC power [VA]	3000	3680	4600	4999
Max. apparent AC power [VA]	3000	3680	4600	4999
Nominal grid voltage(AC voltage range) [V]	220/230/240 (180 - 280)			230/240 (180 - 280)
Nominal grid frequency/range [Hz]	50/60			50/60
Nominal AC current [A]	13	16	20	21.7
Max. AC current [A]	13.6	16.8 (16 for G83)	21	21.7
Displacement power factor	0.8 leading to 0.8 lagging			
THDi, rated power [%]	<2			
INPUT AC				
Max. apparent AC power[VA]	3000	3680	4600	4999
Max. AC current[A]	13.6	16.8 (16 for G83)	21	21.7
Nominal grid voltage(AC voltage range)[V]	220/230/240 (180 - 280)			
Nominal grid Frequency/range[Hz]	50/60			
OUTPUT DC (BATTERY)				
Battery voltage range [V]	70-400			
Recommended battery voltage[V]	300			
Max.continuous charge/discharge current [A]	35			
Communication interfaces	CAN			
Reverse connect protection	Yes			
EFFICIENCY				
Max. Battery charge efficiency (GRID to BAT)	96.5	96.5	97.0	97.0
Max. Battery discharge efficiency (BAT to AC)	96.5	96.5	97.0	97.0
SAFETY & PROTECTION				
Over/under voltage protection	Yes			
DC isolation protection	Yes			
Grid protection	Yes			
DC injection monitoring	Yes			
Residual current detection	Yes			
Anti-islanding protection	Yes			
Over load protection	Yes			
Over heat protection	Yes			
POWER CONSUMPTION				
Standby consumption (Night) [W]	<10			
STANDARD				
Safety	IEC62477			
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3 / EN 61000-6-4			
Certification	G98/G99/G100			
ENVIRONMENT LIMIT				
Degree of protection(according to IEC60529)	IP 65			
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]	<25			
DIMENSION AND WEIGHT				
Dimensions(WxHxD) [mm]	430*341.5*143			
Weight [kg]	15.5	15.5	16.3	16.3
Cooling concept	Natural			
Topology	Non-isolated			
Communication interfaces	Meter/Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/RS485/DRM/USB/CT			
LCD display	Yes			
Standard warranty [year]	5-10			