

Single Phase
AC Coupled

X1-Retro Fit

High Voltage



**Simple.
Reliable.
Efficient**



High
Efficiency



Battery
Solution



IP65
Rated



Remote
Monitoring

3.7kW

4.6kW

X1-RETRO FIT-3.7T / X1-RETRO FIT-4.6T X1-RETRO FIT-5.0T

SolaX Power is delighted to announce the launch of the eagerly anticipated AC charger. The AC retrofit charger can be installed on existing PV installations alongside the existing string inverter, on new systems that require charge from grid flexibility, but also in properties with no solar-enabling the end user to store cheap overnight electricity for use during high-tariff periods.

The AC charger comes with enhanced control features. A new platform for system aggregation that will allow for multiple installations to be controlled remotely is currently under development.



Version: E,C,I

E:with EPS function C:without EPS function

I:internal EPS function device



X1-RETRO FIT (SINGLE PHASE)

Version: E,C,I
E:with EPS function
C:without EPS function
I:internal EPS function device

X1-FIT-3.7kW

X1-FIT-4.6kW

X1-FIT-5.0kW

OUTPUT (AC)	X1-FIT-3.7kW			X1-FIT-4.6kW			X1-FIT-5.0kW		
	C Version	E Version	I Version	C Version	E Version	I Version	C Version	E Version	I Version
Nominal AC power [VA]		3680			4600			4999	
Max. apparent AC power [VA]		3680			4600			4999	
Nominal grid voltage(AC voltage range) [V]		220/230/240 (180 - 270)			220/230/240 (180 - 270)			220/230/240 (180 - 270)	
Nominal grid frequency/range [Hz]		50/60			50/60			50/60	
Nominal AC current [A]		16			20			21.7	
Max. AC current [A]		16			21			21.7	
Displacement power factor		0.8 leading to 0.8 lagging			0.8 leading to 0.8 lagging			0.8 leading to 0.8 lagging	
THDi, rated power [%]		<2			<2			<2	
INPUT AC									
Max. apparent AC power[VA]		3680	7680		4600	9600		4999	9999
Max. AC current[A]		16	37.7		21	47		21.7	47.7
Nominal grid voltage(AC voltage range)[V]		220/230/240 (180 - 270)			220/230/240 (180 - 270)			220/230/240 (180 - 270)	
Nominal grid Frequency/range[Hz]		50/60			50/60			50/60	
BATTERY									
Battery voltage range [V]					85-400				
Recommended battery voltage[V]					300				
Max.continuous charge/discharge current [A]					20				
Communication interfaces					CAN/ RS485				
Reverse connect protection					YES				
OFF-GRID OUTPUT(WITH BATTERY)									
MAX. continuous apparent power [VA]	-	5000		-	6000		-	6000	
Rated voltage[V],Frequency [Hz]	-	230, 50/60		-	230, 50/60		-	230, 50/60	
MAX.continuous current [A]	-	21.7		-	26		-	26	
Peak apparent power [VA]	-	6000		-	8000		-	8000	
Changeover time [ms]	-	<500	<20	-	<500	<20	-	<500	<20
THDv, linear Load [%]	-	<2		-	<2		-	<2	
Changeover device	-	External	Internal	-	External	Internal	-	External	Internal
EFFICIENCY									
Max. Battery charge efficiency (GRID to BAT)					95.60				
Max. Battery discharge efficiency (BAT to AC)					97.00				
POWER CONSUMPTION									
Standby consumption (Night) [W]					<15 for hot standby, <3 for cold standby				
SAFETY& PROTECTION									
Over/under voltage protection					YES				
Monitoring ground fault protection					YES				
Grid protection					YES				
STANDARD									
Safety					IEC61407				
EMC					EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3				
Certification					VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 /G99 / G98 / AS4777 / EN50549/ CEI 0-21 / VDE 2510 / and so on				
ENVIRONMENT LIMIT									
Degree of protection(according to IEC60529)					IP65				
Operating temperature range [°C]					-20 ~ +60 (derating at +45)				
Max. operation altitude [m]					<2000				
Humidity [%]					0~100 (condensing)				
Storage temperature [°C]					-20 ~ +60				
Typical noise emission [dB]					40				
DIMENSION AND WEIGHT									
Dimensions(WxHxD) [mm]					476*464*180				
Weight [kg]					23				
Cooling concept					Natural				
Topology					Non-isolated				
Communication interfaces					Ethernet/Meter/Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/DRM/USB/ISO alarm/CT				
LCD display					Backlight 20*4 character				
Standard warranty [year]					5-10				

Three Phase
AC Coupled

X3-Retro Fit

High Voltage



**Simple.
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Battery
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Rated



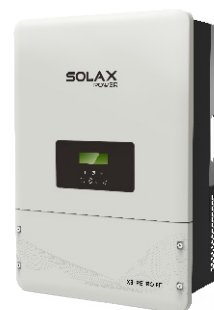
Remote
Monitoring

8kW

10kW

X3-RETRO FIT-8.0T / X3-RETRO FIT-10.0T

- Natural Cooling, quiet and low maintenance
- Max Efficiency up to 96%
- Compatible with High-Voltage batteries
- Protection rating IP65
- Blackout Protection



Version: E,C

E:with EPS function C:without EPS function

X3-Fit-8.0

X3-Fit-10.0

OUTPUT (AC)	E Version	C Version	E Version	C Version
Nominal AC power [VA]	8000	8000	10000	10000
Max. apparent AC power [VA]	8000	8000	10000	10000
Nominal grid voltage(AC voltage range) [V]	400V/230VAC;380/220VAC			
Nominal grid frequency/range [Hz]	50/60			
Nominal AC current [A]	11.6	11.6	14.5	14.5
Max. AC current [A]	12.8	12.8	16.0	16.0
Displacement power factor	0.8 leading to 0.8 lagging			
THDi, rated power [%]	<3			
INPUT AC				
Max. apparent AC power[VA]	8000	8000	10000	10000
Max. AC current[A]	12.8	12.8	16.0	16.0
Nominal grid voltage(AC voltage range)[V]	400/230;380/220			
Nominal grid Frequency/range[Hz]	50/60			
OUTPUT DC (BATTERY)				
Battery voltage range [V]	160-800			
Max.continuous charge/discharge current [A]	35(0.5H)			
Communication interfaces	CAN/ RS485			
Reverse connect protection	YES			
EPS OUTPUT(WITH BATTERY)				
EPS MAX. continuous apparent power [VA]	8000	—	10000	—
EPS rated voltage[VAC],Frequency [Hz]	400/230;380/220 50/60	—	400/230;380/220 50/60	—
EPS MAX.continuous current [A]	11.6	—	14.5	—
EPS peak apparent power [VA] Duration [s]	10000 60	—	10000 60	—
Changeover time [s]	<1.5	—	<1.5	—
THDv, linear Load [%]	<2	—	<2	—
Changeover device	external	—	external	—
Three phases unbalanced		YES		
EFFICIENCY				
Max. Battery charge efficiency (GRID to BAT)	96.0			
Max. Battery discharge efficiency (BAT to AC)	96.5			
POWER CONSUMPTION				
Standby consumption (Night) [W]	50 in standby mode, 10 in idle mode			
SAFETY& PROTECTION				
Over/under voltage protection	Yes			
Monitoring ground fault protection	Yes			
Grid protection	Yes			
STANDARD				
Safety	IEC62477			
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3			
Certification	VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / G98 / AS4777 / EN50549/ CEI 0-21			
ENVIRONMENT LIMIT				
Degree of protection(according to IEC60529)	IP65			
Operating temperature range [°C]	-20..... +60 (derating at +45)			
Max. operation altitude [m]	<2000			
Humidity [%]	0~100 (non-condensing)			
Storage temperature [°C]	-20..... +60			
Typical noise emission [dB]	40			
DIMENSION AND WEIGHT				
Dimensions(WxHxD) [mm]	457*654*228			
Weight [kg]	38			
Cooling concept	Natural			
Topology	Non-isolated			
Communication interfaces	Ethernet/Meter/Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/DRM/USB/ISO alarm/CAN/BMS/NTC			
LCD display	Backlight 20*4 character			
Standard warranty [year]	5-10			