

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)

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## X1-FIT-3.7kW

## X1-FIT-4.6kW

## X1-FIT-5.0kW

	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
<b>OUTPUT (AC)</b>									
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	
<b>INPUT AC</b>									
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	
<b>BATTERY</b>									
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				
<b>OFF-GRID OUTPUT(WITH BATTERY)</b>									
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
<b>EFFICIENCY</b>									
Max. Battery charge efficiency (GRID to BAT)					95.60				
Max. Battery discharge efficiency (BAT to AC)					97.00				
<b>POWER CONSUMPTION</b>									
Standby consumption (Night) [W]					<15 for hot standby, <3 for cold standby				
<b>SAFETY&amp; PROTECTION</b>									
Over/under voltage protection					YES				
Monitoring ground fault protection					YES				
Grid protection					YES				
<b>STANDARD</b>									
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				
<b>ENVIRONMENT LIMIT</b>									
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				
<b>DIMENSION AND WEIGHT</b>									
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				