## **NEW FROM SOLAX** AC RETRO FIT CHARGER ACHIEVE ENERGY INDEPENDENCE

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 develop-



\*SolaX Portal V2 - Releasing Soon



## FEATURES







## **AC RETRO-FIT FROM SOLAX**



	POWER								
Model	X1-Fit-3.7E	X1-Fit-3.7I	X1-Fit-3.7C	X1-Fit-4.6E	X1-Fit-4.6I	X1-Fit-4.6C	X1-Fit-5.0E	X1-Fit-5.0I	X1-Fit-5.00
OUTPUT AC									
Norminal AC power [VA]	3680	3680	3680	4600	4600	4600	4999	4999	4999
Max. AC power [VA]	3680	3680	3680	4600	4600	4600	4999	4999	4999
	3000	3000	3000				4999	4999	4999
Rated grid voltage (AC voltage range) [V]				220	/230/240 (180 to	270)			
Rated grid frequency [Hz]					50/60				
Norminal AC current [A]	16	16	16	20	20	20	21.7	21.7	21.7
Лах. AC current [A]	16	16	16	21	21	21	21.7	21.7	21.7
Displacement power factor	0.8 leading to 0.8 lagging								
Total harmonic distortion (THDi, rated power)	<2%								
Parallel operation	Under development - future update								
oad control				Under develo	pment - future up	date (optional)			
NPUT AC									
		3680+4000			4600+5000			4999+5000	
Norminal AC power [VA]	3680	(bypass)	3680	4600	(bypass)	4600	4999	(bypass)	4999
Лах. AC current [A]	16		16	21		21	21.7		21.7
1.00. 2.00000 1 0.0. 2	10	16+21.7 (bypass)	10		21+26 (bypass)		21.7	21.7+26 (bypass)	21.7
ated grid voltage (AC voltage range) [V]	220/230/240 (180 to 270)								
ated grid frequency [Hz]	50/60								
isplacement power factor				0.8	leading to 0.8 lag	ging			
ATTERY									
attery voltage range [V]					85-400				
ecommended battery voltage [V]					300V DC				
Nax.charge/discharge power [W]					Up to 6000W				
Nax.charge/discharge current [A]					20A (adjustable)				
Peak charge/discharge current [A]					30A, 30s				
Communication interfaces					CAN/RS485				
					YES				
Reverse connect protection					YES				
PS OUTPUT(WITH BATTERY)									
PS max power [VA]	5000	5000	-	6000	6000		6000	6000	-
PS rated power [VA]	4000	4000	-	5000	5000	-	5000	5000	-
PS rated voltage [V], Frequency [Hz]	230VA	C, 50/60	-	230VA0	50/60	-	230VA	.C, 50/60	
PS rated current [A]	17.4	17.4	-	21.7	21.7	-	21.7	21.7	-
PS max current [A]	21.7	21.7	-	26	26	-	26	26	-
PS peak power [W]	8000, 10s - 8000, 10s - 8000, 10s						0, 10s		
Switch time [s]	<500ms - <500ms - <500ms						00ms		
Total harmonic distortion (THDv, linear load)	<2% - <2% - <2%								
			-			-			
Parallel operation		ES	-		ES	-		rES .	-
	External	Internal	-	External	Internal	-	External	Internal	-
-			-	YES (signa	l provided)		YES (signa	al provided)	÷
Changeover device Compatible with the generator	YES (signa	i provided)							
-		i provided)							
Compatible with the generator		95.60%	95.60%	95.60%	95.60%	95.60%	95.60%	95.60%	95.60%
Compatible with the generator  FFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)	YES (signa		95.60% 97.00%	95.60% 97.00%	95.60% 97.00%	95.60% 97.00%	95.60% 97.00%	95.60% 97.00%	95.60% 97.00%
ompatible with the generator  FFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)	YES (signa 95.60%	95.60%							
compatible with the generator  FFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION	YES (signa 95.60%	95.60%			97.00%				
compatible with the generator  FFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]	YES (signa 95.60%	95.60%			97.00%				
Compatible with the generator  EFFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  POWER CONSUMPTION  Internal consumption (Idle) [W]	YES (signa 95.60%	95.60%			97.00%				
Compatible with the generator  EFFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  POWER CONSUMPTION  Internal consumption (Idle) [W]  dle mode  ETANDARD	YES (signa 95.60%	95.60%		97.00%	97.00% <3 YES	97.00%			
Compatible with the generator  FFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  FOWER CONSUMPTION  Internal consumption (Idle) [W]  dle mode  ITANDARD  iafety	YES (signa 95.60%	95.60%		97.00% IEC6	97.00% <3 YES 2109-1/-2 / IEC62	97.00%			
Compatible with the generator  EFFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  FOWER CONSUMPTION  Internal consumption (Idle) [W]  dle mode  ITANDARD  iafety  IMC	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00% IEC6 EN 61000-6-1	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 /	97.00% 040/ EN 61000-6-3	97.00%	97.00%	
Compatible with the generator  SEFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  COWER CONSUMPTION  Internal consumption (Idle) [W]  dle mode  STANDARD  Safety  SMC  Setification	YES (signa 95.60%	95.60% 97.00%		97.00% IEC6 EN 61000-6-1	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 /	97.00% 040/ EN 61000-6-3	97.00%	97.00%	
Compatible with the generator  SEFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  COWER CONSUMPTION  Internal consumption (Idle) [W]  dle mode  STANDARD  Safety  SMC  Setification	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00% IEC6 EN 61000-6-1	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 /	97.00% 040/ EN 61000-6-3	97.00%	97.00%	
compatible with the generator  EFFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  dle mode  ITANDARD  iafety  IMC  cetification  INVIRONMENT LIMIT	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00% IEC6 EN 61000-6-1	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 /	97.00% 040/ EN 61000-6-3	97.00%	97.00%	
compatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  FOWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  Letification  INVIRONMENT LIMIT  Ingress protection	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00% IEC6 EN 61000-6-1 2 / VDE-AR-N 4105	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 / 4	97.00% 040/ EN 61000-6-3 AS4777 / EN50438	97.00%	97.00%	
compatible with the generator  FFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  detification  NVIRONMENT LIMIT  Ingress protection  Operating temperature range [°C]	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 / IP65	97.00% 040/ EN 61000-6-3 AS4777 / EN50436	97.00%	97.00%	
compatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  Letification  NVIRONMENT LIMIT  Ingress protection  Operating temperature range [°C]  Itumidity [%]	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 / IP65 +60°C (derating at	97.00% 040/ EN 61000-6-3 AS4777 / EN50436	97.00%	97.00%	
ompatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  etification  NVIRONMENT LIMIT  Ingress protection  Imperating temperature range [°C]  umidity [%]  littude [m]	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 / IP65  +60°C (derating at 95 (non-condensity) <2000	97.00% 040/ EN 61000-6-3 AS4777 / EN50436	97.00%	97.00%	
compatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  Letification  NVIRONMENT LIMIT  Ingress protection  Operating temperature range [°C]  Littude [m]  torage temperature [°C]	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 / IP65 +60°C (derating at each of the condense of the condens	97.00% 040/ EN 61000-6-3 AS4777 / EN50436	97.00%	97.00%	
compatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  etification  NVIRONMENT LIMIT  Ingress protection  Imperating temperature range [°C]  Iumidity [%]  Ititude [m]  torage temperature [°C]  loise emission (typical) [dB]	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 / IP65 +60°C (derating at each of the condense of the condens	97.00% 040/ EN 61000-6-3 AS4777 / EN50433 t +45°C)	97.00%	97.00%	
compatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  etification  NVIRONMENT LIMIT  Ingress protection  Imperating temperature range [°C]  Iumidity [%]  Ilitude [m]  torage temperature [°C]  Ioise emission (typical) [dB]  Inver voltage category	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20	97.00%  <3 YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 / IP65 +60°C (derating at each of the condense of the condens	97.00% 040/ EN 61000-6-3 AS4777 / EN50433 t +45°C)	97.00%	97.00%	
Compatible with the generator  CFFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  COWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  CTANDARD  Cafety  CHARD COMPANIES  CARD COMPANIES  C	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20	97.00% <a href="right">&lt;3</a> YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 / IP65 +60°C (derating at each of the content of the con	97.00% 040/ EN 61000-6-3 AS4777 / EN50433 t +45°C)	97.00%	97.00%	
compatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  Idetification  NVIRONMENT LIMIT  Ingress protection  Ideprating temperature range [*C]  Idumidity [%]  Ilititude [m]  torage temperature [*C]  Ioise emission (typical) [dB]  Iver voltage category  IMENSION AND WEIGHT  Idenation (WxHxD) [mm]	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20	97.00% <a href="right">&lt;3</a> YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 /  IP65 +60°C (derating at each of the content of the co	97.00% 040/ EN 61000-6-3 AS4777 / EN50433 t +45°C)	97.00%	97.00%	
compatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  cetification  INVIRONMENT LIMIT Ingress protection  Operating temperature range [*C]  Idlumidity [%]  Idlitude [m]  torage temperature [*C]  Ioise emission (typical) [dB]  Over voltage category  DIMENSION AND WEIGHT  Demensions (WxHxD) [mm]	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20	97.00% <a href="right">&lt;3</a> YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 / IP65 +60°C (derating at each of the content of the con	97.00% 040/ EN 61000-6-3 AS4777 / EN50433 t +45°C)	97.00%	97.00%	
compatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  retification  NVIRONMENT LIMIT  Ingress protection  Operating temperature range [*C]  Iumidity [%]  Jititude [m]  torage temperature [*C]  loise emission (typical) [dB]  Over voltage category  IMENSION AND WEIGHT  Ivenensions (WXHXD) [mm]  Veight [kg]	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20	97.00% <a href="right">&lt;3</a> YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 /  IP65 +60°C (derating at each of the content of the co	97.00% 040/ EN 61000-6-3 AS4777 / EN50433 t +45°C)	97.00%	97.00%	
compatible with the generator  FFICIENCY  Alax. Battery charge efficiency (AC to BAT) (@full load)  Alax. Battery discharge efficiency (BAT to AC) (@full load)  OWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  TANDARD  afety  MC  retification  NVIRONMENT LIMIT  Ingress protection  Operating temperature range [*C]  Iumidity [%]  Ilititude [m]  torage temperature [*C]  Ioise emission (typical) [dB]  Over voltage category  IMENSION AND WEIGHT  Ivenensions (WxHxD) [mm]  Veight [kg]  oooling concept	YES (signa 95.60%	95.60% 97.00%	97.00%	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20	97.00% <a href="right">&lt;3</a> YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 /  IP65 +60°C (derating at each of the content of the co	97.00% 040/ EN 61000-6-3 AS4777 / EN50433 t +45°C)	97.00%	97.00%	
Compatible with the generator  CFFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  COWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  CTANDARD  Cafety  CATANDARD  C	YES (signa 95.60%	95.60% 97.00%	97.00% 0126-1-1 A1:2012	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20	97.00% <a href="right">&lt;3</a> YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 /  IP65 +60°C (derating at 95 (non-condensi < 2000 -20 +60°C <a href="right">&lt;40</a> supply side), II (b: 460*477*181.5 26.85 Natural Transformerless	97.00%  040/ EN 61000-6-3  AS4777 / EN50438  t +45°C)  ing)	97.00%	97.00%	
Compatible with the generator  EFFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  POWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  STANDARD  Safety  EMC  Cetification  ENVIRONMENT LIMIT Ingress protection  Operating temperature range [°C]  Humidity [%]  Altitude [m]  Storage temperature [°C]  Noise emission (typical) [dB]  Over voltage category  DIMENSION AND WEIGHT  Demensions (WxHxD) [mm]  Weight [kg]  Cooling concept  Topology  Communication	YES (signa 95.60%	95.60% 97.00%	97.00% 0126-1-1 A1:2012	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20 0~	97.00% <a href="right">&lt;3</a> YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 /  IP65 +60°C (derating at 95 (non-condensi < 2000 -20 +60°C <a href="right">&lt;40</a> supply side), II (b: 460*477*181.5 26.85 Natural Transformerless otional), RF (optional), RF (optional)	97.00%  040/ EN 61000-6-3  AS4777 / EN50438  t +45°C)  ing)  attery side)	97.00%	97.00%	
Compatible with the generator  EFFICIENCY  Max. Battery charge efficiency (AC to BAT) (@full load)  Max. Battery discharge efficiency (BAT to AC) (@full load)  POWER CONSUMPTION  Internal consumption (Idle) [W]  Idle mode  STANDARD  Safety  EMC  Cetification  ENVIRONMENT LIMIT Ingress protection  Operating temperature range [°C]  Humidity [%]  Mittude [m]  Storage temperature [°C]  Noise emission (typical) [dB]  Over voltage category  DIMENSION AND WEIGHT  Demensions (WxHxD) [mm]  Weight [kg]  Cooling concept  Topology	YES (signa 95.60%	95.60% 97.00%	97.00% 0126-1-1 A1:2012	97.00%  IEC6 EN 61000-6-1 2 / VDE-AR-N 4105  -20 0 ~	97.00% <a href="right">&lt;3</a> YES  2109-1/-2 / IEC62 / EN 61000-6-2 / 6 / G83 / G59 /  IP65 +60°C (derating at 95 (non-condensi < 2000 -20 +60°C <a href="right">&lt;40</a> supply side), II (b: 460*477*181.5 26.85 Natural Transformerless	97.00%  040/ EN 61000-6-3  AS4777 / EN50438  t +45°C)  ing)  attery side)	97.00%	97.00%	

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