

X1-FIT

I: Integrated with EPS(off-grid or back-up) function

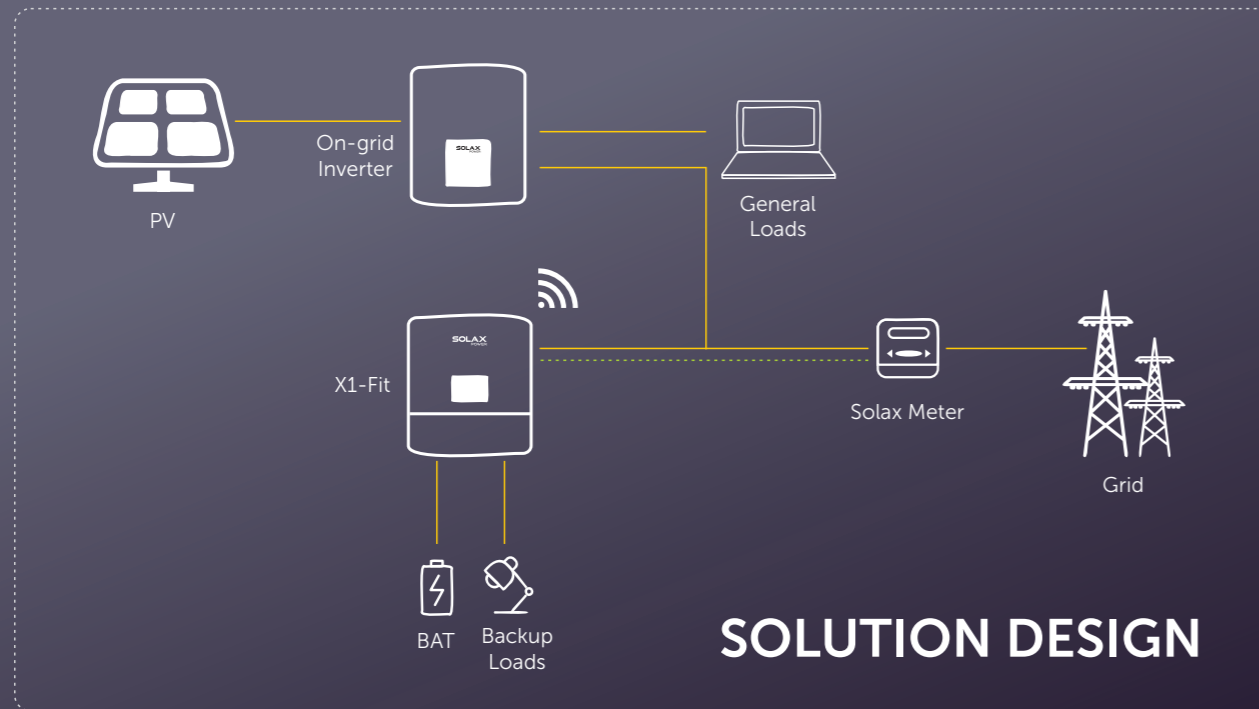
SINGLE-PHASE
AC COUPLED HYBRID INVERTER

3.7~5.0kW



Features

- VPP function
- Working temperature: -20°C to 60°C
- IP65 Protection level
- Remote upgrade and control
- Flexible peak shaving



SOLUTION DESIGN

X1-RETRO FIT

SINGLE PHASE

X1-FIT-3.7I

X1-FIT-5.0I

OUTPUT (AC)

Nominal AC power [VA]	3680	4999
Max. apparent AC power [VA]	3680	4999
Nominal grid voltage(AC voltage range) [V]	220/230/240 (180 - 270)	220/230/240 (180 - 270)
Nominal grid frequency/range [Hz]	50/60	50/60
Nominal AC current [A]	16	21.7
Max. AC current [A]	16	21.7
Displacement power factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
THDi, rated power [%]	<2	<2

INPUT AC

Max. apparent AC power[VA]	7680	9999
Max. AC current[A]	37.7	47.7
Nominal grid voltage(AC voltage range)[V]	220/230/240 (180 - 270)	220/230/240 (180 - 270)
Nominal grid Frequency/range[Hz]	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
Rated voltage[V],Frequency [Hz]	230, 50/60	230, 50/60
MAX.continuous current [A]	21.7	26
Peak apparent power [VA]	6000	8000
Changeover time [ms]	<20	<20
THDv, linear Load [%]	<2	<2
Changeover device	Internal	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
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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

*Can be modified without notice.(V4)