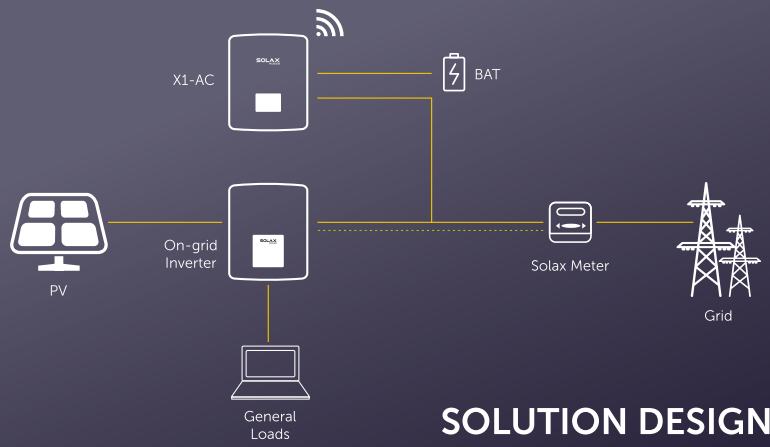
X1-AC

SINGLE-PHASE
AC COUPLED HYBRID INVERTER

3.0~5.0kW

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.



SOLUTION DESIGN

X1-AC

SINGLE-PHASE

	X1-AC-3.0	X1-AC-3.6	X1-AC-4.6	X1-AC-5.0
AC INPUT & OUTPUT				
Nominal AC output power [W]	3000	3680	4600	4999
Nominal AC output current [A]	13	16	20	21.7
Max. AC output apparent power [VA]	3000	3680	4600	4999
Max. AC output current [A]	13.6	16.8(16 for G98)	21	21.7
Max. AC input apparent power [VA]	3000	3680	4600	4999
Max. AC input current [A]	13.6	16.8(16 for G98)	21	21.7
Nominal AC voltage [V]	220/230/240 (180 - 280)			
Nominal grid frequency/Grid frequency range [Hz]	50/60			
Displacement power factor	0.8 leading~0.8 lagging			
THDi (rated power) [%]	<2			
BATTERY DATA				
Battery type	Li-ion battery/Lead-acid battery			
Battery voltage range [V]	70-400			
Max.continuous charge/discharge current [A]	35			
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			
SYSTEM DATA				
Max. efficiency [%]	96.5		97.0	
Battery charge/discharge effciency [%]	96.5		97.0	
Degree of protection	IP 65			
Operating temperature range [°C]	-25 ~ +60 (derating at 45)			
Max. operation altitude [m]	<2000			
Humidity [%]	0~100			
Typical noise emission [dB]	<25			
Storage temperature [°C]	-25 ~ +60			
Dimensions(WxHxD) [mm]	430*341.5*143			
Net weight [kg]	15.5	15.5	16.3	16.3
Cooling concept	Nature cooling			
Communication interfaces	Meter/Pocket Wi-Fi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/RS485/DRM/USB/CT			
STANDARD				
Safety	IEC62477			
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3 / EN 61000-6-4			
Certification	G98/G99/G100			