



TEST REPORT

报告号: SXP-18OC1761FCSHP-4
REPORT NO.:
产品名称: Grid-tied photovoltaic inverter
PRODUCT:
样品收到日期 2018-10-30
RECEIVED:
测试日期 2019-04-20 to 2019-05-10
TESTED:
报告日期 2019-05-27
ISSUED:

报告持有者: **SOLAX POWER NETWORK TECHNOLOGY (ZHEJIANG) CO., LTD.**

APPLICANT:

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BUILDING 4, NO.518, XINZHUANG ROAD, CAOHEJING
SONGJIANG HIGH-TECH PARK, SHANGHAI P.R.C. (201612)

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2 样品及测试信息 SAMPLE INFORMATION & TEST SUMMARY

The Solar inverter converts DC voltage into AC voltage. The EMC filter is provided at the output of mains and at the input of solar array. The unit is transformer-less type. The output of mains can be switched off redundantly by the high power switching bridge and two relays. This assures that the opening of the output circuit will also operate in case of one error. Description of the electrical circuit

Description of the differences of the models within a series:

Model	R411	R412	R413	R328	R62	DC switch	DC connector
X1-Hybrid-3.0 -N-E	Y	N	N	N	N	N	Y
X1-Hybrid-3.0 -D-E	Y	N	N	N	N	Y	Y
X1-Hybrid-3.7 -N-E	N	Y	N	N	N	N	Y
X1-Hybrid-3.7 -D-E	N	Y	N	N	N	Y	Y
X1-Hybrid-4.6 -N-E	Y	Y	N	N	N	N	Y
X1-Hybrid-4.6 -D-E	Y	Y	N	N	N	Y	Y
X1-Hybrid-5.0 -N-E	N	N	N	N	N	N	Y
X1-Hybrid-5.0 -D-E	N	N	N	N	N	Y	Y
X1-Fit-3.7E	N	Y	N	Y	Y	N	N
X1-Fit-5.0E	N	N	Y	Y	Y	N	N

Note:




Y: have

N: haven't

The test ability of the following standards has been accredited by COFRAC: IEC 60068-2-1:2007 ed6.0, IEC 60068-2-2:2007 ed5.0, IEC 60068-2-14:2009 ed6.0, IEC 60068-2-30:2005 ed3.0

测试样品信息 TEST SAMPLE INFORMATION




Copy of marking plate:

GRID-CONNECTED PHOTOVOLTAIC INVERTER	GRID-CONNECTED PHOTOVOLTAIC INVERTER	GRID-CONNECTED PHOTOVOLTAIC INVERTER
Model: X1-Hybrid-3.0-D-E	Model: X1-Hybrid-3.0-N-E	Model: X1-Hybrid-3.7-D-E
DC INPUT	DC INPUT	DC INPUT
Max.DC Voltage 600V	Max.DC Voltage 600V	Max.DC Voltage 600V
MPP Voltage Range 125-550V	MPP Voltage Range 125-550V	MPP Voltage Range 125-550V
Max.DC Current (Input A/Input B) 10A/10A	Max.DC Current (Input A/Input B) 10A/10A	Max.DC Current (Input A/Input B) 10A/10A
Isc PV(Input A/Input B) 14A/14A	Isc PV(Input A/Input B) 14A/14A	Isc PV(Input A/Input B) 14A/14A
Max.DC Power (@cosφ=1) 4000W	Max.DC Power (@cosφ=1) 4000W	Max.DC Power (@cosφ=1) 5000W
AC OUTPUT & AC INPUT	AC OUTPUT & AC INPUT	AC OUTPUT & AC INPUT
Nominal AC Voltage, Frequency 230V~,50/60Hz	Nominal AC Voltage, Frequency 230V~,50/60Hz	Nominal AC Voltage, Frequency 230V~,50/60Hz
Nominal AC Apparent Power (@cosφ=1) 3000VA	Nominal AC Apparent Power (@cosφ=1) 3000VA	Nominal AC Apparent Power (@cosφ=1) 3680VA
Max. AC Output/Input Current 14.4A/14.4A	Max. AC Output/Input Current 14.4A/14.4A	Max. AC Output/Input Current 16A/16A
Power Factor at Rated Power 1	Power Factor at Rated Power 1	Power Factor at Rated Power 1
Power Factor Range 0.8 Leading - 0.8 Lagging	Power Factor Range 0.8 Leading - 0.8 Lagging	Power Factor Range 0.8 Leading - 0.8 Lagging
OTHERS	OTHERS	OTHERS
EPS Nominal Voltage, Frequency 230V~,50/60Hz	EPS Nominal Voltage, Frequency 230V~,50/60Hz	EPS Nominal Voltage, Frequency 230V~,50/60Hz
EPS Nominal Apparent Power 4000VA	EPS Nominal Apparent Power 4000VA	EPS Nominal Apparent Power 4000VA
EPS Rated Current 17.4A	EPS Rated Current 17.4A	EPS Rated Current 17.4A
Battery Type Lithium	Battery Type Lithium	Battery Type Lithium
Battery Voltage Operation Range 85-400V	Battery Voltage Operation Range 85-400V	Battery Voltage Operation Range 85-400V
Max.Charge and discharge Current 20A	Max.Charge and discharge Current 20A	Max.Charge and discharge Current 20A
Operating Ambient Temperature Range -20...60°C	Operating Ambient Temperature Range -20...60°C	Operating Ambient Temperature Range -20...60°C
Ingress Protection IP65	Ingress Protection IP65	Ingress Protection IP65
Inverter Topology non-isolated	Inverter Topology non-isolated	Inverter Topology non-isolated
Protective Class I	Protective Class I	Protective Class I
Over Voltage Category III (MAINS),II (DC)	Over Voltage Category III (MAINS),II (DC)	Over Voltage Category III (MAINS),II (DC)
Grid Monitoring AS4777/ VDE-AR-N 4105/ CEI 0-21 EN50438/ VDE0126-1-1/ G59	Grid Monitoring AS4777/ VDE-AR-N 4105/ CEI 0-21 EN50438/ VDE0126-1-1/ G59	Grid Monitoring AS4777/ VDE-AR-N 4105/ CEI 0-21 EN50438/ VDE0126-1-1/ G59
DRM0 DRM1 DRM2 DRM3 DRM4 DRM5 DRM6 DRM7 DRM8 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	DRM0 DRM1 DRM2 DRM3 DRM4 DRM5 DRM6 DRM7 DRM8 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	DRM0 DRM1 DRM2 DRM3 DRM4 DRM5 DRM6 DRM7 DRM8 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Inverter SN: <input type="text"/>	Inverter SN: <input type="text"/>	Inverter SN: <input type="text"/>
Register SN: <input type="text"/>	Register SN: <input type="text"/>	Register SN: <input type="text"/>
		
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**GRID-CONNECTED
PHOTOVOLTAIC INVERTER**



Model: X1-Hybrid-3.7-N-E

DC INPUT	
Max.DC Voltage	600V 
MPP Voltage Range	125-550V 
Max.DC Current (Input A/Input B)	10A/10A
Isc PV(Input A/Input B)	14A/14A
Max.DC Power (@cosφ=1)	5000W
AC OUTPUT & AC INPUT	
Nominal AC Voltage, Frequency	230V~50/60Hz
Nominal AC Apparent Power (@cosφ=1)	3680VA
Max. AC Output/Input Current	16A/16A
Power Factor at Rated Power	1
Power Factor Range	0.8 Leading- 0.8 Lagging
OTHERS	
EPS Nominal Voltage, Frequency	230V~50/60Hz
EPS Nominal Apparent Power	4000VA
EPS Rated Current	17.4A
Battery Type	Lithium
Battery Voltage Operation Range	85-400V 
Max.Charge and discharge Current	20A
Operating Ambient Temperature Range	-20...60°C
Ingress Protection	IP65
Inverter Topology	non-isolated
Protective Class	I
Over Voltage Category	III (MAINS),II (DC)
Grid Monitoring	AS4777/ VDE-AR-N 4105/ CEI 0-21 EN50438/ VDE0126-1-1/ G59
DRM0 DRM1 DRM2 DRM3 DRM4 DRM5 DRM6 DRM7 DRM8	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Inverter
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Register
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
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**GRID-CONNECTED
PHOTOVOLTAIC INVERTER**



Model: X1-Hybrid-4.6-D-E

DC INPUT	
Max.DC Voltage	600V 
MPP Voltage Range	125-550V 
Max.DC Current (Input A/Input B)	10A/10A
Isc PV(Input A/Input B)	14A/14A
Max.DC Power (@cosφ=1)	6000W
AC OUTPUT & AC INPUT	
Nominal AC Voltage, Frequency	230V~50/60Hz
Nominal AC Apparent Power (@cosφ=1)	4600VA
Max. AC Output/Input Current	21A/21A
Power Factor at Rated Power	1
Power Factor Range	0.8 Leading- 0.8 Lagging
OTHERS	
EPS Nominal Voltage, Frequency	230V~50/60Hz
EPS Nominal Apparent Power	5000VA
EPS Rated Current	21.7A
Battery Type	Lithium
Battery Voltage Operation Range	85-400V 
Max.Charge and discharge Current	20A
Operating Ambient Temperature Range	-20...60°C
Ingress Protection	IP65
Inverter Topology	non-isolated
Protective Class	I
Over Voltage Category	III (MAINS),II (DC)
Grid Monitoring	AS4777/ VDE-AR-N 4105/ CEI 0-21 EN50438/ VDE0126-1-1/ G59
DRM0 DRM1 DRM2 DRM3 DRM4 DRM5 DRM6 DRM7 DRM8	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Inverter
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
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**GRID-CONNECTED
PHOTOVOLTAIC INVERTER**



Model: X1-Hybrid-4.6-N-E

DC INPUT	
Max.DC Voltage	600V 
MPP Voltage Range	125-550V 
Max.DC Current (Input A/Input B)	10A/10A
Isc PV(Input A/Input B)	14A/14A
Max.DC Power (@cosφ=1)	6000W
AC OUTPUT & AC INPUT	
Nominal AC Voltage, Frequency	230V~50/60Hz
Nominal AC Apparent Power (@cosφ=1)	4600VA
Max. AC Output/Input Current	21A/21A
Power Factor at Rated Power	1
Power Factor Range	0.8 Leading- 0.8 Lagging
OTHERS	
EPS Nominal Voltage, Frequency	230V~50/60Hz
EPS Nominal Apparent Power	5000VA
EPS Rated Current	21.7A
Battery Type	Lithium
Battery Voltage Operation Range	85-400V 
Max.Charge and discharge Current	20A
Operating Ambient Temperature Range	-20...60°C
Ingress Protection	IP65
Inverter Topology	non-isolated
Protective Class	I
Over Voltage Category	III (MAINS),II (DC)
Grid Monitoring	AS4777/ VDE-AR-N 4105/ CEI 0-21 EN50438/ VDE0126-1-1/ G59
DRM0 DRM1 DRM2 DRM3 DRM4 DRM5 DRM6 DRM7 DRM8	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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**GRID-CONNECTED
PHOTOVOLTAIC INVERTER**



Model: X1-Hybrid-5.0-D-E

DC INPUT	
Max.DC Voltage	600V
MPP Voltage Range	125-550V
Max.DC Current (Input A/Input B)	10A/10A
Isc PV(Input A/Input B)	14A/14A
Max.DC Power (@cosφ=1)	6000W
AC OUTPUT & AC INPUT	
Nominal AC Voltage, Frequency	230V~.50/60Hz
Nominal AC Apparent Power (@cosφ=1)	4999VA
Nominal AC Apparent Power for VDE 4105 (@cosφ=1)	4600VA
Max. AC Output/Input Current	21.7A/21.7A
Power Factor at Rated Power	1
Power Factor Range	0.8 Leading- 0.8 Lagging
OTHERS	
EPS Nominal Voltage, Frequency	230V~.50/60Hz
EPS Nominal Apparent Power	5000VA
EPS Rated Current	21.7A
Battery Type	Lithium
Battery Voltage Operation Range	85-400V
Max.Charge and discharge Current	20A
Operating Ambient Temperature Range	-20...60°C
Ingress Protection	IP65
Inverter Topology	non-isolated
Protective Class	I
Over Voltage Category	III (MAINS),II (DC)
Grid Monitoring	AS4777/ VDE-AR-N 4105/ CEI 0-21 EN50438/ VDE0126-1-1/ G59
DRM0 DRM1 DRM2 DRM3 DRM4 DRMS DRM6 DRM7 DRM8	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Inverter
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612.00540.03

**GRID-CONNECTED
PHOTOVOLTAIC INVERTER**



Model: X1-Hybrid-5.0-N-E

DC INPUT	
Max.DC Voltage	600V
MPP Voltage Range	125-550V
Max.DC Current (Input A/Input B)	10A/10A
Isc PV(Input A/Input B)	14A/14A
Max.DC Power (@cosφ=1)	6000W
AC OUTPUT & AC INPUT	
Nominal AC Voltage, Frequency	230V~.50/60Hz
Nominal AC Apparent Power (@cosφ=1)	4999VA
Nominal AC Apparent Power for VDE 4105 (@cosφ=1)	4600VA
Max. AC Output/Input Current	21.7A/21.7A
Power Factor at Rated Power	1
Power Factor Range	0.8 Leading- 0.8 Lagging
OTHERS	
EPS Nominal Voltage, Frequency	230V~.50/60Hz
EPS Nominal Apparent Power	5000VA
EPS Rated Current	21.7A
Battery Type	Lithium
Battery Voltage Operation Range	85-400V
Max.Charge and discharge Current	20A
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Over Voltage Category	III (MAINS),II (DC)
Grid Monitoring	AS4777/ VDE-AR-N 4105/ CEI 0-21 EN50438/ VDE0126-1-1/ G59
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Inverter
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GRID-CONNECTED INVERTER



Model: X1-Fit-3.7E

AC OUTPUT & AC INPUT	
Nominal AC Voltage, Frequency	230V~.50/60Hz
Nominal AC Apparent Power (@cosφ=1)	3680VA
Max. AC Output/Input Current	16A/16A
Power Factor at Rated Power	1
Power Factor Range	0.8 Leading- 0.8 Lagging
EPS OUTPUT	
EPS Nominal Voltage, Frequency	230V~.50/60Hz
EPS Nominal Apparent Power	4000VA
EPS Rated Current	17.4A
BATTERY	
Battery Type	Lithium
Battery Voltage Operation Range	85-400V
Max.Charge and discharge Current	20A
OTHERS	
Operating Ambient Temperature Range	-20...60°C
Ingress Protection	IP65
Inverter Topology	non-isolated
Protective Class	I
Over Voltage Category	III (MAINS),II (DC)
Grid Monitoring	AS4777/ VDE-AR-N 4105/ CEI 0-21 EN50438/ VDE0126-1-1/ G59
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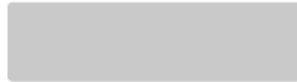
GRID-CONNECTED INVERTER



Model: X1-Fit-5.0E

AC OUTPUT & AC INPUT	
Nominal AC Voltage, Frequency	230V~,50/60Hz
Nominal AC Apparent Power (@cosφ=1)	4999VA
Nominal AC Apparent Power for VDE 4105 (@cosφ=1)	4600VA
Max. AC Output/Input Current	21.7A/21.7A
Power Factor at Rated Power	1
Power Factor Range	0.8 Leading- 0.8 Lagging
EPS OUTPUT	
EPS Nominal Voltage, Frequency	230V~,50/60Hz
EPS Nominal Apparent Power	5000VA
EPS Rated Current	21.7A
BATTERY	
Battery Type	Lithium
Battery Voltage Operation Range	85-400V
Max.Charge and discharge Current	20A
OTHERS	
Operating Ambient Temperature Range	-20...60℃
Ingress Protection	IP65
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2.1 测试结果 TEST RESULTS

IEC 60068-2-1:2007

Test Item	Acceptance Cirteria	Test Results	Conclusion
Low temperature	Temperature:(-25± 2) °C	During and after the test, the specimen should Exhibit no mechanical damage or functional failure	Pass
	Test duration:16h		
	Recovery:1h		
	Rate of change:1°C/min		
	During and after the test, the specimen should Exhibit no mechanical damage or functional failure		

IEC 60068-2-2:2007

Test Item	Acceptance Cirteria	Test Results	Conclusion
High temperature test	Temperature:(60± 2) °C	During and after the test, the specimen should Exhibit no mechanical damage or functional failure	Pass
	Test duration:16h		
	Recovery:1h		
	Rate of change:1°C/min		
	During and after the test, the specimen should Exhibit no mechanical damage or functional failure		

IEC 60068-2-30:2005

Test Item	Acceptance Cirteria				Test Results	Conclusion
Change of teperature	Step	Temperature	Humidity (% RH)	Duration (h)	After the test,the specimen should exhibit no functional failure	Pass
	1	(25± 2)	(98± 2)	/		
	2.Ramp	(40± 2)	(98± 2)	3		
	3.Ramp	(40± 2)	(93± 2)	0.25		
	4.Dwell	(40± 2)	(93± 2)	9		
	5.Ramp	(40± 2)	(98± 2)	0.25		
	6.Ramp	(40± 2)	(98± 2)	3		
	7.Dwell	(25± 2)	(98± 2)	9		
After the test,the specimen should exhibit no functional failure						

IEC 60068-2-14:2009

Test Item	Acceptance Cirteria				Test Results	Conclusion
Change of temperature	Step	Temperature	Rate of change (°C/min)	Duration (h)	After the test, the specimen should exhibit no functional failure	Pass
	1	(-25± 2)	1	3		
	2	(60± 2)	1	3		
After the test, the specimen should exhibit no functional failure						

2.2 测试设备 TEST EQUIPMENT

No,	Equipment	Internal No,	Type/characteristics	Manufacturer	Last Calibration	Due Data
1	Oscilloscope	A4089024SH	P4034B	Tektronix	26/Jul/18	25/Jul/19
2	Oscilloscope	A4089008SH	DPO3014	Tektronix	23/Jan/19	22/Jan/20
3	Oscilloscope	A4089036SH	DL850	YOKOGAWA	29/Aug/18	28/Aug/19
4	High Voltage probe	A4089026SH	P5200A	Tektronix	23/Jan/19	22/Jan/20
5	Voltage probe	A4089004SH	P2220	Tektronix	10/Oct/18	09/Oct/19
6	Current probe	A4089009SH	P6139B	Tektronix	23/Jan/19	22/Jan/20
7	Current probe	A4089013SH	A622	Tektronix	23/Jan/19	22/Jan/20
8	Current probe	A4089037SH	960 30	YOKOGAWA	10/Oct/18	09/Oct/19
9	Current probe	A4089038SH	960 30	YOKOGAWA	10/Oct/18	09/Oct/19
10	Current probe	A4089039SH	960 30	YOKOGAWA	10/Oct/18	09/Oct/19
11	Current probe	A4089017SH	TCP0150	Tektronix	26/Jul/18	25/Jul/19
12	AC power supply	A7040066SH	AFC-31010T	APC	08/Aug/18	31/Jul/20
13	AC power supply	A7040071SH	29/May/68	Chroma	22/Feb/18	21/Feb/20
14	AC power supply	A7040057SH	29/May/68	Chroma	19/Jul/17	18/Jul/19
15	AC power supply	A7040077SH	MX-30	AMETEK	-	-
16	Programmable DC source	A7040058SH	62150H-1000S	Chroma	-	-
17	Programmable DC source	A7040059SH	62150H-1000S	Chroma	-	-
18	Programmable DC source	A7040069SH	62150H-1000S	Chroma	-	-
19	Programmable DC source	A7040074SH	62150H-1000S	Chroma	-	-
20	Programmable DC source	A7040075SH	62150H-1000S	Chroma	-	-

21	Programmable DC source	A7040076SH	62150H-1000S	Chroma	-	-
22	Programmable DC source	A7040070SH	62150H-1000S	Chroma	-	-
23	Power Analyzer	A1240096SH	WT3000	YOKOGAWA	31/Oct/18	30/Oct/19
24	Power Analyzer	A1240097SH	WT3000	YOKOGAWA	06/May/19	05/May/20
25	Power Analyzer	A1240103SH	LMG500	ZES ZIMMER	26/Jul/18	25/Jul/19
26	Power Analyzer	A1240101SH	WT3000	YOKOGAWA	26/Jul/18	25/Jul/19
27	Anti-isolating test system	A7150074SH	ACTL-380SH	qunling	-	-
28	Load cabinet	A7150083SH	WSTF-LDJ60K/300	shanghai wen shun	-	-
29	Load cabinet	A7150084SH	WSTF-LDJ45K/0385	shanghai wen shun	-	-
30	Load cabinet	A7150085SH	WSTF-LDJ45K/0385	shanghai wen shun	-	-
31	Load cabinet	A7150075SH	WSTF-RC25k/0,3D 0,001kVA-25kVA	shanghai wen shun	-	-
32	Temperature recorder	A740037SH	G820	GRAPHIEC	10/Oct/18	09/Oct/19
33	Load cabinet(for flick)	A7150090SH	200Ω , 250V;1200W	shanghai wen shun	-	-
34	Variable resistor	A7150076SH	BX8-67	LingOu	-	-

3 测试照片 TEST PHOTO





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