Test Verification of Conformity

Verification Number: 2312A0637SHA-V1

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant CE mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	SUNWAY SOLAR CO., LTD. Building 7, Cross-border E-commerce Supervision Zone, Huguang Road, Shushan District, Hefei City, Anhui Province, China
Product Description: Ratings & Principle Characteristics:	Hybrid inverter See Appendix
Models/Type References:	SW*LP1-EU1 (*= 1K, 1.5K, 2K, 2.5K, 3K, 3.6K) SW*LP1-EU (*= 3K, 3.6K, 4K, 4.6K, 5K, 5.5K, 6K) SW*LP1-EU2 (*=4K, 4.6K, 5K, 5.5K, 6K)
Brand Name:	SUNWAYTECH
Relevant Standards/Directives:	IEC/EN 62109-1:2010 IEC/EN 62109-2:2011 the Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests: Test Report Number(s):	2023-06-30 to 2023-11-08 2312A0637SHA-001/002

Signature

Name: Max Jin
Position: General Manager
Date: 2024-01-10

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2312A0637SHA-V1

Ratings：

Specifications table					
Model	SW1KLP1-EU1	SW1.5KLP1-EU1	SW2KLP1-EU1	SW2.5KLP1-EU1	SW3KLP1-EU1
PV input					
P pv Max(W)	1500	2300	3000	3800	4500
Vmax PV (Vdc) (absolute Max.)	550	550	550	550	550
Isc PV (absolute Max.) (A)	26	26	26	26	26
Number MPP trackers	1	1	1	1	1
Number input strings	1	1	1	1	1
Max. PV input current / strings (A)	18.5	18.5	18.5	18.5	18.5
MPPT voltage range (Vdc)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (Vdc)	80-500	90-500	120-500	150-500	170-500
Battery (charge/discharge***)***					
Battery type	Li-ion/Lead-acid				
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)				
Max charge/discharge Current(A)	25	40	50	63	80
Max charge/discharge Power(W)	1000	1500	2000	2500	3000
AC Grid (input and output)					
Normal AC Voltage (VAC)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Normal AC Current (A)	4.4	6.6	8.7	10.9	13.1
Max. cont. input/output current (A)	5	7	10	12	14
Rated Power(W)	1000	1500	2000	2500	3000
Rated Apparent Power (VA)	1000	1500	2000	2500	3000
Max. cont. Power (W)	1000	1500	2000	2500	3000
Max. cont. Apparent Power (VA)	1000	1500	2000	2500	3000
Power factor (adjustable)	1.0(-0.8~ +0.8)				

Signature

Name: Max Jin
Position: General Manager
Date: 2024-01-10

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2312A0637SHA-V1

Specifications table					
Model	SW1KLP1-EU1	SW1.5KLP1-EU1	SW2KLP1-EU1	SW2.5KLP1-EU1	SW3KLP1-EU1
AC Load output (stand alone)					
Normal Voltage (VAC)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Nominal Current(A)	4.4	6.6	8.7	10.9	13.1
Max. cont. current (A)	5	7	10	12	14
Max. cont. Power (W)	1000	1500	2000	2500	3000
Rated Apparent Power (VA)	1000	1500	2000	2500	3000
Max. cont. Apparent Power (VA)	1000	1500	2000	2500	3000
Power factor	1.0				
Others					
Ingress protection (IP)	IP65				
Protective class	Class I				
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)				
Inverter Isolation	Non-isolated (PV-AC-BAT)				
Overvoltage category	OVC III (AC Main), OVC II (PV)				
Firmware	1.01				

Signature

Name: Max Jin
Position: General Manager
Date: 2024-01-10

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2312A0637SHA-V1

Specifications table				
Model	SW3.6KLP1-EU1	SW3KLP1-EU	SW3.6KLP1-EU	SW4KLP1-EU
PV input				
P pv Max(W)	5400	4500	5400	6000
Vmax PV (Vdc) (absolute Max.)	550	550	550	550
Isc PV (absolute Max.) (A)	26	26 x 2	26 x 2	26 x 2
Number MPP trackers	1	2	2	2
Number input strings	1	1/1	1/1	1/1
Max. PV input current / strings (A)	18.5	18.5 x 2	18.5 x 2	18.5 x 2
MPPT voltage range (Vdc)	80-500	80-500	80-500	80-500
Vdc range @ full power (Vdc)	210-500	90-500	110-500	120-500
Battery (charge/discharge***)***				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)			
Max charge/discharge Current(A)	80	80	80	80
Max charge/discharge Power(W)	3600	3000	3600	4000
AC Grid (input and output)				
Normal AC Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Normal AC Current (A)	15.7	13.1	15.7	17.4
Max. cont. input/output current (A)	17	14	17	19
Normal Power (W)	3600	3000	3600	4000
Rated Apparent Power (VA)	3600	3000	3600	4000
Max. cont. input/output Power (W)	3600	3000	3600	4000
Max. cont. Apparent Power (VA)	3600	3000	3600	4000
Power factor(adjustable)	1.0(-0.8~ +0.8)			

Signature

Name: Max Jin
Position: General Manager
Date: 2024-01-10

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2312A0637SHA-V1

Specifications table				
Model	SW3.6KLP1-EU1	SW3KLP1-EU	SW3.6KLP1-EU	SW4KLP1-EU
AC Load output (stand alone)				
Normal Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Nominal Current (A)	15.7	13.1	15.7	17.4
Max. cont. current (A)	17	14	17	19
Max. cont. Power (W)	3600	3000	3600	4000
Rated Apparent Power (VA)	3600	3000	3600	4000
Max. cont. Apparent Power (VA)	3600	3000	3600	4000
Power factor	1.0			
Others				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)			
Inverter Isolation	Non-isolated (PV-AC-BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Firmware	1.01			

Signature

Name: Max Jin
Position: General Manager
Date: 2024-01-10

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2312A0637SHA-V1

Specifications table				
Model	SW4.6KLP1-EU	SW5KLP1-EU	SW5.5KLP1-EU	SW6KLP1-EU
PV input				
P pv Max(W)	6900	7500	8300	9000
Vmax PV (Vdc) (absolute Max.)	550	550	550	550
Isc PV (absolute Max.) (A)	26 x 2	26 x 2	26 x 2	26 x 2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current / strings (A)	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2
MPPT voltage range (Vdc)	80-500	80-500	80-500	80-500
Vdc range @ full power (Vdc)	130-500	150-500	160-500	170-500
Battery (charge/discharge***)***				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)			
Max charge/discharge Current(A)	80	80	80	80
Max charge/discharge Power(W)	4600	4800	4800	4800
AC Grid (input and output)				
Normal AC Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Normal AC Current (A)	20	21.8	24	26.1
Max. cont. input/output current (A)	22	23	26	28
Normal Power (W)	4600	5000	5500	6000
Rated Apparent Power (VA)	4600	5000	5500	6000
Max. cont. input/output Power (W)	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4600	5000	5500	6000
Power factor(adjustable)	1.0(-0.8~ +0.8)			

Signature

Name: Max Jin
Position: General Manager
Date: 2024-01-10

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2312A0637SHA-V1

Specifications table				
Model	SW4.6KLP1-EU	SW5KLP1-EU	SW5.5KLP1-EU	SW6KLP1-EU
AC Load output (stand alone)				
Normal Voltage (VAC)	L/N/PE, 230Vac			
Frequency (Hz)	50			
Nominal Current(A)	20	21.8	24	26.1
Max. cont. current (A)	22	23	26	28
Max. cont. Power (W)	4600	5000	5500	6000
Rated Apparent Power (VA)	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4600	5000	5500	6000
Power factor	1.0			
Others				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)			
Inverter Isolation	Non-isolated (PV-AC-BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			
Firmware	1.01			

Signature

Name: Max Jin
Position: General Manager
Date: 2024-01-10

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2312A0637SHA-V1

Specifications table					
Model	SW4KLP1-EU2	SW4.6KLP1-EU2	SW5KLP1-EU2	SW5.5KLP1-EU2	SW6KLP1-EU2
PV input					
P pv Max(W)	6000	6900	7500	8300	9000
Vmax PV (Vdc) (absolute Max.)	550	550	550	550	550
Isc PV (absolute Max.) (A)	26 x 2	26 x 2	26 x 2	26 x 2	26 x 2
Number MPP trackers	2	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1	1/1
Max. PV input current / strings (A)	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2
MPPT voltage range (Vdc)	80-500	80-500	80-500	80-500	80-500
Vdc range @ full power (Vdc)	120-500	130-500	150-500	160-500	170-500
Battery (charge/discharge***)***					
Battery type	Li-ion/Lead-acid etc.				
Battery Normal Voltage (Range) (Vdc)	51.2V (40-60V)				
Max charge/discharge Current(A)	120	120	120	120	120
Max charge/discharge Power(W)	4000	4600	5000	5500	6000
AC Grid (input and output)					
Normal AC Voltage (VAC)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Normal AC Current (A)	17.4	20	21.8	24	26.1
Max. cont. input/output current (A)	19	22	23	26	28
Rated Power(W)	4000	4600	5000	5500	6000
Rated Apparent Power (VA)	4000	4600	5000	5500	6000
Max. cont. Power (W)	4000	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4000	4600	5000	5500	6000
Power factor (adjustable)	1.0(-0.8~ +0.8)				

Signature

Name: Max Jin
Position: General Manager
Date: 2024-01-10

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2312A0637SHA-V1

Specifications table					
Model	SW4KLP1-EU2	SW4.6KLP1-EU2	SW5KLP1-EU2	SW5.5KLP1-EU2	SW6KLP1-EU2
AC Load output (stand alone)					
Normal Voltage (VAC)	L/N/PE, 230Vac				
Frequency (Hz)	50				
Nominal Current(A)	17.4	20	21.8	24	26.1
Max. cont. current (A)	19	22	23	26	28
Max. cont. Power (W)	4000	4600	5000	5500	6000
Max. cont. Apparent Power (VA)	4000	4600	5000	5500	6000
Power factor	1.0				
Others					
Ingress protection (IP)	IP65				
Protective class	Class I				
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)				
Inverter Isolation	Non-isolated (PV - AC - BAT)				
Overvoltage category	OVC III (AC Main), OVC II (PV)				
Firmware	1.01				

Signature

Name: Max Jin
Position: General Manager
Date: 2024-01-10