

Test Verification of Conformity

Verification Number: 2509B0697SHA-V1

On the basis of the tests undertaken, the sample<s> of the below product has been tested by an accredited 3rd party laboratory in accordance to the referenced specification<s>/standard<s> at the time the tests were carried out. This verification is part of the full test report<s> and should be read in conjunction with it <them>.

This document can be used in support of a claim in meeting relevant EU EMC Directive(2014/30/EU) and mandatory Conformity Marking. And in accordance with EU law, the claim is the sole obligation of the Manufacturer/ Importer.

Applicant Name & Address:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112
Product Description:	Hybrid inverter
Ratings & Principle Characteristics:	See Appendix
Models/Type References:	AF*-MTH (*=3K, 4K, 4.99K, 5K, 6K, 8K, 9.99K, 10K, 12K, 14.99K, 15K) AF*-MTH-0 (*=3K, 4K, 4.99K, 5K, 6K, 8K, 9.99K, 10K, 12K, 14.99K, 15K) AF*-MTHA (*=3K, 4K, 4.99K, 5K, 6K, 7K) AF*-MTHA-0 (*=3K, 4K, 4.99K, 5K, 6K, 7K)
Brand Name:	Afore
Relevant Standards/Directives:	EN IEC 61000-6-1:2019; EN IEC 61000-6-3:2021; EN IEC 61000-6-2:2019; EN IEC 61000-6-4:2019; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN IEC 61000-3-11:2019; EN 61000-3-12:2011; EN 62920:2017+A1:2021;
Verification Issuing Office Name & Address:	Intertek Testing Services (Shanghai FTZ) Co., Ltd. Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Date of Tests:	2024-01-09 to 2024-05-14
Test Report Number(s):	2509B0697SHA-001

Signature

Name: Max Jin
Position: General Manager
Date: 2025-10-29

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2509B0697SHA-V1

Specifications table				
Model	AF3K-MTH	AF4K-MTH	AF4.99K-MTH	AF5K-MTH
PV input				
P pv Max (kW)	6	8	10	10
Vmax PV (Vdc) (absolute Max.)	1000	1000	1000	1000
Isc PV (absolute Max.) (A)	25*2	25*2	25*2	25*2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	18.5*2	18.5*2	18.5*2	18.5*2
MPPT voltage range (Vdc)	150-850	150-850	150-850	150-850
Vdc range @ full power (Vdc)	200-850	200-850	200-850	200-850
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-600(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30	30	30	30
Max charge/discharge Power(kW)	3	4	4.99	5
AC Grid (input and output)				
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	4.4	5.8	7.3	7.3
Max. cont. input/output current (A)	8 / 5.3	10.5 / 7	13 / 8.5	13 / 8.5
Rated Power (kW)	3	4	4.99	5
Rated Apparent Power (kVA)	3	4	4.99	5
Max. cont. input/output Power (kW)	4.5 / 3.3	6 / 4.4	7.5 / 4.99	7.5 / 5.5
Max. cont. Apparent input/output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 4.99	7.5 / 5.5
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Nominal Current (A)	4.4	5.8	7.3	7.3
Max. cont. current (A)	5.3	7	8.5	8.5
Max. cont. Power (kW)	3	4	4.99	5
Rated Apparent Power (kVA)	3	4	4.99	5
Max. cont. Apparent Power (kVA)	3	4	4.99	5
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
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 (DC)			

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Specifications table				
Model	AF3K-MTH	AF4K-MTH	AF4.99K-MTH	AF5K-MTH
Firmware version	1.01			

APPENDIX: Test Verification of Conformity

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Specifications table				
Model	AF6K-MTH	AF8K-MTH	AF9.99K-MTH	AF10K-MTH
PV input				
P pv Max (kW)	12	16	20	20
Vmax PV (Vdc) (absolute Max.)	1000	1000	1000	1000
Isc PV (absolute Max.) (A)	25*2	25*2	25*2	25*2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	18.5*2	18.5*2	18.5*2	18.5*2
MPPT voltage range (Vdc)	150-850	150-850	150-850	150-850
Vdc range @ full power (Vdc)	250-850	300-850	500-850	500-850
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-600(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30	30	30	30
Max charge/discharge Power(kW)	6	8	9.99	10
AC Grid (input and output)				
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	8.7	11.6	14.5	14.5
Max. cont. input/output current (A)	16 / 10.5	20 / 13.5	26 / 17	26 / 17
Rated Power (kW)	6	8	9.99	10
Rated Apparent Power (kVA)	6	8	9.99	10
Max. cont. input/output Power (kW)	9 / 6.6	12 / 8.8	15 / 9.99	15 / 11
Max. cont. Apparent input/output Power (kVA)	9 / 6.6	12 / 8.8	15 / 9.99	15 / 11
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Nominal Current (A)	8.7	11.6	14.5	14.5
Max. cont. current (A)	10.5	13.5	17	17
Max. cont. Power (kW)	6	8	9.99	10
Rated Apparent Power (kVA)	6	8	9.99	10
Max. cont. Apparent Power (kVA)	6	8	9.99	10
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
Protective class	Class I			
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)			
Inverter Isolation	Non-isolated (PV - AC - BAT)			

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Specifications table				
Model	AF6K-MTH	AF8K-MTH	AF9.99K-MTH	AF10K-MTH
Overvoltage category	OVC III (AC Main), OVC II (DC)			
Firmware version	1.01			

APPENDIX: Test Verification of Conformity

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Specifications table				
Model	AF12K-MTH	AF14.99K-MTH	AF15K-MTH	
PV input				
P pv Max (kW)	24	30	30	
Vmax PV (Vdc) (absolute Max.)	1000	1000	1000	
Isc PV (absolute Max.) (A)	25*2	25*2	25*2	
Number MPP trackers	2	2	2	
Number input strings	1/1	1/1	1/1	
Max. PV input current (A)	18.5*2	18.5*2	18.5*2	
MPPT voltage range (Vdc)	150-850	150-850	150-850	
Vdc range @ full power (Vdc)	500-850	500-850	500-850	
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-600(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30	30	30	
Max charge/discharge Power(kW)	12	14.99	15	
AC Grid (input and output)				
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	17.4	21.8	21.8	
Max. cont. input/output current (A)	32 / 21.5	40.5 / 27	40.5 / 27	
Rated Power (kW)	12	14.99	15	
Rated Apparent Power (kVA)	12	14.99	15	
Max. cont. input/output Power (kW)	18 / 13.2	22.5 / 14.99	22.5 / 16.5	
Max. cont. Apparent input/output Power (kVA)	18 / 13.2	22.5 / 14.99	22.5 / 16.5	
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Nominal Current (A)	17.4	21.8	21.8	
Max. cont. current (A)	21.5	27	27	
Max. cont. Power (kW)	12	14.99	15	
Rated Apparent Power (kVA)	12	14.99	15	
Max. cont. Apparent Power (kVA)	12	14.99	15	
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
Protective class	Class I			
Temperature (℃)	-25℃ to +60℃ (Derating 45℃)			

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Specifications table				
Model	AF12K-MTH	AF14.99K-MTH	AF15K-MTH	
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (DC)			
Firmware version	1.01			

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2509B0697SHA-V1

Specifications table				
Model	AF3K-MTH-0	AF4K-MTH-0	AF4.99K-MTH-0	AF5K-MTH-0
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30*2	30*2	30*2	30*2
Max charge/discharge Power(kW)	3 / 3.3	4 / 4.4	4.99	5 / 5.5
AC Grid (input and output)				
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	4.4	5.8	7.3	7.3
Max. cont. input/output current (A)	8 / 5.3	10.5 / 7	13 / 8.5	13 / 8.5
Rated Power (kW)	3	4	4.99	5
Rated Apparent Power (kVA)	3	4	4.99	5
Max. cont. input/output Power (kW)	4.5 / 3.3	6 / 4.4	7.5 / 4.99	7.5 / 5.5
Max. cont. Apparent input/output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 4.99	7.5 / 5.5
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Nominal Current (A)	4.4	5.8	7.3	7.3
Max. cont. current (A)	5.3	7	8.5	8.5
Max. cont. Power (kW)	3	4	4.99	5
Rated Apparent Power (kVA)	3	4	4.99	5
Max. cont. Apparent Power (kVA)	3	4	4.99	5
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (DC)			
Firmware version	1.01			

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Specifications table				
Model	AF6K-MTH-0	AF8K-MTH-0	AF9.99K-MTH-0	AF10K-MTH-0
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30*2	30*2	30*2	30*2
Max charge/discharge Power(kW)	6 / 6.6	8 / 8.8	9.99	10 / 11
AC Grid (input and output)				
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	8.7	11.6	14.5	14.5
Max. cont. input/output current (A)	16 / 10.5	20 / 13.5	26 / 17	26 / 17
Rated Power (kW)	6	8	9.99	10
Rated Apparent Power (kVA)	6	8	9.99	10
Max. cont. input/output Power (kW)	9 / 6.6	12 / 8.8	15 / 9.99	15 / 11
Max. cont. Apparent input/output Power (kVA)	9 / 6.6	12 / 8.8	15 / 9.99	15 / 11
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Nominal Current (A)	8.7	11.6	14.5	14.5
Max. cont. current (A)	10.5	13.5	17	17
Max. cont. Power (kW)	6	8	9.99	10
Rated Apparent Power (kVA)	6	8	9.99	10
Max. cont. Apparent Power (kVA)	6	8	9.99	10
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (DC)			
Firmware version	1.01			

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Specifications table				
Model	AF12K-MTH-0	AF14.99K-MTH-0	AF15K-MTH-0	
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30*2	30*2	30*2	
Max charge/discharge Power(kW)	12 / 13.2	14.99	15 / 16.5	
AC Grid (input and output)				
Normal AC Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Normal AC Current (A)	17.4	21.8	21.8	
Max. cont. input/output current (A)	32 / 21.5	40.5 / 27	40.5 / 27	
Rated Power (kW)	12	14.99	15	
Rated Apparent Power (kVA)	12	14.99	15	
Max. cont. input/output Power (kW)	18 / 13.2	22.5 / 14.99	22.5 / 16.5	
Max. cont. Apparent input/output Power (kVA)	18 / 13.2	22.5 / 14.99	22.5 / 16.5	
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (Vac)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50			
Nominal Current (A)	17.4	21.8	21.8	
Max. cont. current (A)	21.5	27	27	
Max. cont. Power (kW)	12	14.99	15	
Rated Apparent Power (kVA)	12	14.99	15	
Max. cont. Apparent Power (kVA)	12	14.99	15	
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (DC)			
Firmware version	1.01			

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Specifications table				
Model	AF3K-MTHA	AF4K-MTHA	AF4.99K-MTHA	AF5K-MTHA
PV input				
P pv Max (kW)	6	8	10	10
Vmax PV (Vdc) (absolute Max.)	600	600	600	600
Isc PV (absolute Max.) (A)	25*2	25*2	25*2	25*2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	18.5*2	18.5*2	18.5*2	18.5*2
MPPT voltage range (Vdc)	100-550	100-550	100-550	100-550
Vdc range @ full power (Vdc)	120-550	150-550	200-550	200-550
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-450(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30	30	30	30
Max charge/discharge Power(kW)	3	4	4.99	5
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	7.6	10.1	12.6	12.6
Max. cont. input/output current (A)	16 / 10.5	20 / 13.5	26 / 17	26 / 17
Rated Power (kW)	3	4	4.99	5
Rated Apparent Power (kVA)	3	4	4.99	5
Max. cont. input/output Power (kW)	4.5 / 3.3	6 / 4.4	7.5 / 4.99	7.5 / 5.5
Max. cont. Apparent input/output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 4.99	7.5 / 5.5
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Nominal Current (A)	7.6	10.1	12.6	12.6
Max. cont. current (A)	10.5	13.5	17	17
Max. cont. Power (kW)	3	4	4.99	5
Rated Apparent Power (kVA)	3	4	4.99	5
Max. cont. Apparent Power (kVA)	3	4	4.99	5
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
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 (DC)			
Firmware version	1.01			

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Specifications table				
Model	AF6K-MTHA	AF7K-MTHA		
PV input				
P pv Max (kW)	12	14		
Vmax PV (Vdc) (absolute Max.)	600	600		
Isc PV (absolute Max.) (A)	25*2	25*2		
Number MPP trackers	2	2		
Number input strings	1/1	1/1		
Max. PV input current (A)	18.5*2	18.5*2		
MPPT voltage range (Vdc)	100-550	100-550		
Vdc range @ full power (Vdc)	250-550	300-550		
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-450(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30	30		
Max charge/discharge Power(kW)	6	7		
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	15.1	17.6		
Max. cont. input/output current (A)	32 / 21.5	32 / 25		
Rated Power (kW)	6	7		
Rated Apparent Power (kVA)	6	7		
Max. cont. input/output Power (kW)	9 / 6.6	10.5 / 7.7		
Max. cont. Apparent input/output Power (kVA)	9 / 6.6	10.5 / 7.7		
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Nominal Current (A)	15.1	17.6		
Max. cont. current (A)	21.5	25		
Max. cont. Power (kW)	6	7		
Rated Apparent Power (kVA)	6	7		
Max. cont. Apparent Power (kVA)	6	7		
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
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 (DC)			
Firmware version	1.01			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2509B0697SHA-V1

Specifications table				
Model	AF3K-MTHA-0	AF4K-MTHA-0	AF4.99K-MTHA-0	AF5K-MTHA-0
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-450(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30*2	30*2	30*2	30*2
Max charge/discharge Power(kW)	3 / 3.3	4 / 4.4	4.99	5 / 5.5
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	7.6	10.1	12.6	12.6
Max. cont. input/output current (A)	16 / 10.5	20 / 13.5	26 / 17	26 / 17
Rated Power (kW)	3	4	4.99	5
Rated Apparent Power (kVA)	3	4	4.99	5
Max. cont. input/output Power (kW)	4.5 / 3.3	6 / 4.4	7.5 / 4.99	7.5 / 5.5
Max. cont. Apparent input/output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 4.99	7.5 / 5.5
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Nominal Current (A)	7.6	10.1	12.6	12.6
Max. cont. current (A)	10.5	13.5	17	17
Max. cont. Power (kW)	3	4	4.99	5
Rated Apparent Power (kVA)	3	4	4.99	5
Max. cont. Apparent Power (kVA)	3	4	4.99	5
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (DC)			
Firmware version	1.01			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2509B0697SHA-V1

Specifications table				
Model	AF6K-MTHA-0	AF7K-MTHA-0		
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid etc.			
Battery Normal Voltage Range (Vdc)	80-450(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30*2	30*2		
Max charge/discharge Power(kW)	6 / 6.6	7 / 7.7		
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Normal AC Current (A)	15.1	17.6		
Max. cont. input/output current (A)	32 / 21.5	32 / 25		
Rated Power (kW)	6	7		
Rated Apparent Power (kVA)	6	7		
Max. cont. input/output Power (kW)	9 / 6.6	10.5 / 7.7		
Max. cont. Apparent input/output Power (kVA)	9 / 6.6	10.5 / 7.7		
Power factor(adjustable)	1.0(-0.8~ +0.8)			
AC Load output (stand-alone)				
Normal Voltage (VAC)	3P+PE/3P 133/230			
Frequency (Hz)	50			
Nominal Current (A)	15.1	17.6		
Max. cont. current (A)	21.5	25		
Max. cont. Power (kW)	6	7		
Rated Apparent Power (kVA)	6	7		
Max. cont. Apparent Power (kVA)	6	7		
Power factor	1.0			
Others				
Ingress protection (IP)	IP66			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (DC)			
Firmware version	1.01			

Signature



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Position: General Manager

Date: 2025-10-29

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