

Test Verification of Conformity

Verification Number: 240100596SHA-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 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:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112
Product Description: Ratings & Principle Characteristics:	Hybrid inverter See Appendix
Models/Type References:	AF*-ATH (*=3K, 4K, 4.99K, 5K, 6K, 8K, 9.99K, 10K, 12K, 14.99K, 15K) AF*-ATH-0 (*=3K, 4K, 4.99K, 5K, 6K, 8K, 9.99K, 10K, 12K, 14.99K, 15K) AF*-ATHA (*=3K, 4K, 4.99K, 5K, 6K, 7K) AF*-ATHA-0 (*=3K, 4K, 4.99K, 5K, 6K, 7K)
Brand Name:	Afore
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:	2024-04-17 to 2024-05-14
Test Report Number(s):	240100596SHA-001/002


Signature

Name: Max Jin

Position: General Manager

Date: 2024-05-14

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 240100596SHA-V1

Ratings:

Model	Specifications table			
	AF3K-ATH	AF4K-ATH	AF4.99K-ATH	AF5K-ATH
PV input				
P _{pv} Max (kW)	5	6	7.5	7.5
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	1000
I _{sc} PV (absolute Max.) (A)	25*2	25*2	25*2	25*2
Number MPP trackers	2	2	2	2
Number input strings	2/2	2/2	2/2	2/2
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 (°C)	-25°C to +60°C (Derating 45°C)			
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: 240100596SHA-V1

Specifications table				
Model	AF6K-ATH	AF8K-ATH	AF9.99K-ATH	AF10K-ATH
PV input				
P _{pv} Max (kW)	9	12	15	15
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	1000
I _{sc} PV (absolute Max.) (A)	25*2	25*2	25*2	25*2
Number MPP trackers	2	2	2	2
Number input strings	2/2	2/2	2/2	2/2
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 (°C)	-25°C to +60°C (Derating 45°C)			
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: 240100596SHA-V1

Specifications table				
Model	AF12K-ATH	AF14.99K-ATH	AF15K-ATH	
PV input				
P _{pv} Max (kW)	18	22.5	22.5	
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	
I _{sc} PV (absolute Max.) (A)	25*2	25*2	25*2	
Number MPP trackers	2	2	2	
Number input strings	2/2	2/2	2/2	
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	50	50	
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 (°C)	-25°C to +60°C (Derating 45°C)			
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: 240100596SHA-V1

Specifications table				
Model	AF3K-ATH-0	AF4K-ATH-0	AF4.99K-ATH-0	AF5K-ATH-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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APPENDIX: Test Verification of Conformity

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Specifications table				
Model	AF6K-ATH-0	AF8K-ATH-0	AF9.99K-ATH-0	AF10K-ATH-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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APPENDIX: Test Verification of Conformity

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Specifications table				
Model	AF12K-ATH-0	AF14.99K-ATH-0	AF15K-ATH-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-ATHA	AF4K-ATHA	AF4.99K-ATHA	AF5K-ATHA
PV input				
P _{pv} Max (kW)	5	6	7.5	7.5
V _{max} PV (Vdc) (absolute Max.)	600	600	600	600
I _{sc} PV (absolute Max.) (A)	25*2	25*2	25*2	25*2
Number MPP trackers	2	2	2	2
Number input strings	2/2	2/2	2/2	2/2
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 (°C)	-25°C to +60°C (Derating 45°C)			
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-ATHA	AF7K-ATHA	
PV input			
P _{pv} Max (kW)	9	10.5	
V _{max} PV (Vdc) (absolute Max.)	600	600	
I _{sc} PV (absolute Max.) (A)	25*2	25*2	
Number MPP trackers	2	2	
Number input strings	2/2	2/2	
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 (°C)	-25°C to +60°C (Derating 45°C)		
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: 240100596SHA-V1

Specifications table				
Model	AF3K-ATHA-0	AF4K-ATHA-0	AF4.99K-ATHA-0	AF5K-ATHA-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: 240100596SHA-V1

Specifications table			
Model	AF6K-ATHA-0	AF7K-ATHA-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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Date: 2024-05-14

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