

Test Verification of Conformity

Verification Number: 230900421SHA-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*-TH (*= 3K, 4K, 5K, 6K, 8K, 10K, 12K, 15K, 17K, 20K, 25K, 30K) AF*-THP (*=3K, 4K, 5K, 6K, 8K, 10K, 12K) AF*-TH-0 (*=3K, 4K, 5K, 6K, 8K, 10K, 12K, 15K, 17K, 20K, 25K, 30K) AF*-THP-0 (*=3K, 4K, 5K, 6K, 8K, 10K, 12K)
Brand Name:	Afore
Relevant Standards/Directives:	IEC 61683:1999
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	2023-09-13 to 2024-03-25
Test Report Number(s):	230900421SHA-001

Signature



Name: Max Jin

Position: General Manager

Date: 2024-03-25

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230900421SHA-V1

Ratings:

Model	Specifications table			
	AF3K-TH	AF4K-TH	AF5K-TH	AF6K-TH
PV input				
P _{pv} Max (kW)	5	6	7.5	9
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	1000
I _{sc} PV (absolute Max.) (A)	30*2	30*2	30*2	30*2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	20*2	20*2	20*2	20*2
MPPT voltage range (Vdc)	150-850	150-850	150-850	150-850
Vdc range @ full power (Vdc)	200-850	200-850	200-850	250-850
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage Range (Vdc)	150-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30	30	30	30
Max charge/discharge Power(kW)	3	4	5	6
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	4.4	5.8	7.3	8.7
Max. cont. input/output current (A)	8 / 5.3	10.5 / 7	13 / 8.5	16 / 10.5
Rated Power (kW)	3	4	5	6
Rated Apparent Power (kVA)	3	4	5	6
Max. cont. input/output Power (kW)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6
Max. cont. Apparent input/output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6
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 / 60			
Nominal Current (A)	4.4	5.8	7.3	8.7
Max. cont. current (A)	5.3	7	8.5	10.5
Max. cont. Power (kW)	3	4	5	6
Rated Apparent Power (kVA)	3	4	5	6
Max. cont. Apparent Power (kVA)	3	4	5	6
Others				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230900421SHA-V1

Ratings:

Specifications table				
Model	AF8K-TH	AF10K-TH	AF12K-TH	AF15K-TH
PV input				
P _{pv} Max (kW)	12	15	18	22.5
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	1000
I _{sc} PV (absolute Max.) (A)	30*2	30*2	30*2	30+48
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/2
Max. PV input current (A)	20*2	20*2	20*2	20+32
MPPT voltage range (Vdc)	150-850	150-850	150-850	150-850
Vdc range @ full power (Vdc)	300-850	500-850	500-850	500-850
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage Range (Vdc)	150-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)	30	30	30	50
Max charge/discharge Power(kW)	8	10	12	15
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	11.6	14.5	17.4	21.8
Max. cont. input/output current (A)	20 / 13.5	26 / 17	32 / 21.5	40.5 / 27
Rated Power (kW)	8	10	12	15
Rated Apparent Power (kVA)	8	10	12	15
Max. cont. input/output Power (kW)	12 / 8.8	15 / 11	18 / 13.2	22.5 / 16.5
Max. cont. Apparent input/output Power (kVA)	12 / 8.8	15 / 11	18 / 13.2	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 / 60			
Nominal Current (A)	11.6	14.5	17.4	21.8
Max. cont. current (A)	13.5	17	21.5	27
Max. cont. Power (kW)	8	10	12	15
Rated Apparent Power (kVA)	8	10	12	15
Max. cont. Apparent Power (kVA)	8	10	12	15
Others				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230900421SHA-V1

Ratings:

Model	Specifications table			
	AF17K-TH	AF20K-TH	AF25K-TH	AF30K-TH
PV input				
P _{pv} Max (kW)	25.5	30	37.5	45
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	1000
I _{sc} PV (absolute Max.) (A)	48*2	48*2	60*2	60*2
Number MPP trackers	2	2	2	2
Number input strings	2/2	2/2	2/2	2/2
Max. PV input current (A)	32*2	32*2	40*2	40*2
MPPT voltage range (Vdc)	150-850	150-850	150-850	150-850
Vdc range @ full power (Vdc)	500-850	500-850	500-850	500-850
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage Range (Vdc)	150-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)	50	50	60	60
Max charge/discharge Power(kW)	17	20	25	30
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	24.7	29	36.3	43.5
Max. cont. input/output current (A)	45 / 30	48 / 32	60 / 40	72 / 48
Rated Power (kW)	17	20	25	30
Rated Apparent Power (kVA)	17	20	25	30
Max. cont. input/output Power (kW)	25.5 / 18.7	30 / 22	37.5 / 27.5	45 / 33
Max. cont. Apparent input/output Power (kVA)	25.5 / 18.7	30 / 22	37.5 / 27.5	45 / 33
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 / 60			
Nominal Current (A)	24.7	29	36.3	43.5
Max. cont. current (A)	30	32	40	48
Max. cont. Power (kW)	17	20	25	30
Rated Apparent Power (kVA)	17	20	25	30
Max. cont. Apparent Power (kVA)	17	20	25	30
Others				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230900421SHA-V1

Ratings:

Specifications table				
Model	AF3K-THP	AF4K-THP	AF5K-THP	AF6K-THP
PV input				
P _{pv} Max (kW)	5	6	7.5	9
V _{max} PV (Vdc) (absolute Max.)	1000	1000	1000	1000
I _{sc} PV (absolute Max.) (A)	30*2	30*2	30*2	30*2
Number MPP trackers	2	2	2	2
Number input strings	1/1	1/1	1/1	1/1
Max. PV input current (A)	20*2	20*2	20*2	20*2
MPPT voltage range (Vdc)	150-850	150-850	150-850	150-850
Vdc range @ full power (Vdc)	200-850	200-850	200-850	250-850
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage Range (Vdc)	80-600(Field adapt battery voltage range)			
Max charge/discharge Current(A)	50	50	50	50
Max charge/discharge Power(kW)	3	4	5	6
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	4.4	5.8	7.3	8.7
Max. cont. input/output current (A)	8 / 5.3	10.5 / 7	13 / 8.5	16 / 10.5
Rated Power (kW)	3	4	5	6
Rated Apparent Power (kVA)	3	4	5	6
Max. cont. input/output Power (kW)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6
Max. cont. Apparent input/output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6
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 / 60			
Nominal Current (A)	4.4	5.8	7.3	8.7
Max. cont. current (A)	5.3	7	8.5	10.5
Max. cont. Power (kW)	3	4	5	6
Rated Apparent Power (kVA)	3	4	5	6
Max. cont. Apparent Power (kVA)	3	4	5	6
Others				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C			
Inverter Isolation	Non-isolated (PV - AC - BAT)			
Overvoltage category	OVC III (AC Main), OVC II (PV)			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230900421SHA-V1

Ratings:

Specifications table			
Model	AF8K-THP	AF10K-THP	AF12K-THP
PV input			
P pv Max (kW)	12	15	18
Vmax PV (Vdc) (absolute Max.)	1000	1000	1000
Isc PV (absolute Max.) (A)	30*2	30*2	30*2
Number MPP trackers	2	2	2
Number input strings	1/1	1/1	1/1
Max. PV input current (A)	20*2	20*2	20*2
MPPT voltage range (Vdc)	150-850	150-850	150-850
Vdc range @ full power (Vdc)	300-850	500-850	500-850
Battery (charge/discharge)			
Battery type	Li-ion/Lead-acid		
Battery Normal Voltage Range (Vdc)	80-600 (Field adapt battery voltage range)	120-650 (Field adapt battery voltage range)	
Max charge/discharge Current(A)	50	50	50
Max charge/discharge Power(kW)	8	10	12
AC Grid (input and output)			
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400		
Frequency (Hz)	50 / 60		
Normal AC Current (A)	11.6	14.5	17.4
Max. cont. input/output current (A)	20 / 13.5	26 / 17	32 / 21.5
Rated Power (kW)	8	10	12
Rated Apparent Power (kVA)	8	10	12
Max. cont. input/output Power (kW)	12 / 8.8	15 / 11	18 / 13.2
Max. cont. Apparent input/output Power (kVA)	12 / 8.8	15 / 11	18 / 13.2
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 / 60		
Nominal Current (A)	11.6	14.5	17.4
Max. cont. current (A)	13.5	17	21.5
Max. cont. Power (kW)	8	10	12
Rated Apparent Power (kVA)	8	10	12
Max. cont. Apparent Power (kVA)	8	10	12
Others			
Ingress protection (IP)	IP65		
Protective class	Class I		
Temperature (°C)	-25°C to +60°C		
Inverter Isolation	Non-isolated (PV - AC - BAT)		
Overvoltage category	OVC III (AC Main), OVC II (PV)		

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230900421SHA-V1

Ratings:

		Specifications table			
Model		AF3K-TH-0	AF4K-TH-0	AF5K-TH-0	AF6K-TH-0
Battery (charge/discharge)					
Battery type		Li-ion/Lead-acid			
Battery Normal Voltage Range (Vdc)		80-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)		30	30	30	30
Max charge/discharge Power(kW)		3 / 3.3	4 / 4.4	5 / 5.5	6 / 6.6
AC Grid (input and output)					
Normal AC Voltage (VAC)		3P+N+PE/3P+PE 230/400			
Frequency (Hz)		50 / 60			
Normal AC Current (A)		4.4	5.8	7.3	8.7
Max. cont. input/output current (A)		8 / 5.3	10.5 / 7	13 / 8.5	16 / 10.5
Rated Power (kW)		3	4	5	6
Rated Apparent Power (kVA)		3	4	5	6
Max. cont. input/output Power (kW)		4.5 / 3	6 / 4	7.5 / 5	9 / 6
Max. cont. Apparent input/output Power (kVA)		4.5 / 3	6 / 4	7.5 / 5	9 / 6
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 / 60			
Nominal Current (A)		4.4	5.8	7.3	8.7
Max. cont. current (A)		5.3	7	8.5	10.5
Max. cont. Power (kW)		3	4	5	6
Rated Apparent Power (kVA)		3	4	5	6
Max. cont. Apparent Power (kVA)		3	4	5	6
Others					
Ingress protection (IP)		IP65			
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)			

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Ratings:

Specifications table				
Model	AF8K-TH-0	AF10K-TH-0	AF12K-TH-0	AF15K-TH-0
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage Range (Vdc)	80-800(Field adapt battery voltage range)			150-800(Field adapt battery voltage range)
Max charge/discharge Current(A)	30	30	30	50
Max charge/discharge Power(kW)	8 / 8.8	10 / 11	12 / 13.2	15 / 16.5
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	11.6	14.5	17.4	21.8
Max. cont. input/output current (A)	20 / 13.5	26 / 17	32 / 21.5	40.5 / 27
Rated Power (kW)	8	10	12	15
Rated Apparent Power (kVA)	8	10	12	15
Max. cont. input/output Power (kW)	12 / 8	15 / 10	18 / 12	22.5 / 15
Max. cont. Apparent input/output Power (kVA)	12 / 8	15 / 10	18 / 12	22.5 / 15
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 / 60			
Nominal Current (A)	11.6	14.5	17.4	21.8
Max. cont. current (A)	13.5	17	21.5	27
Max. cont. Power (kW)	8	10	12	15
Rated Apparent Power (kVA)	8	10	12	15
Max. cont. Apparent Power (kVA)	8	10	12	15
Others				
Ingress protection (IP)	IP65			
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)			

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APPENDIX: Test Verification of Conformity

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Ratings:

Specifications table				
Model	AF17K-TH-0	AF20K-TH-0	AF25K-TH-0	AF30K-TH-0
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage Range (Vdc)	150-800(Field adapt battery voltage range)			
Max charge/discharge Current(A)	50	50	60	60
Max charge/discharge Power(kW)	17 / 18.7	20 / 22	25 / 27.5	30 / 33
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	24.7	29	36.3	43.5
Max. cont. input/output current (A)	45 / 30	48 / 32	60 / 40	72 / 48
Rated Power (kW)	17	20	25	30
Rated Apparent Power (kVA)	17	20	25	30
Max. cont. input/output Power (kW)	25.5 / 17	30 / 20	37.5 / 25	45 / 30
Max. cont. Apparent input/output Power (kVA)	25.5 / 17	30 / 20	37.5 / 25	45 / 30
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 / 60			
Nominal Current (A)	24.7	29	36.3	43.5
Max. cont. current (A)	30	32	40	48
Max. cont. Power (kW)	17	20	25	30
Rated Apparent Power (kVA)	17	20	25	30
Max. cont. Apparent Power (kVA)	17	20	25	30
Others				
Ingress protection (IP)	IP65			
Protective class	Class I			
Temperature (°C)	-25°C to +60°C (Derating 45°C)			
Inverter Isolation	Non-isolated (AC - BAT)			
Oversvoltage category	OVC III (AC Main)			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230900421SHA-V1

Ratings:

Specifications table				
Model	AF3K-THP-0	AF4K-THP-0	AF5K-THP-0	AF6K-THP-0
Battery (charge/discharge)				
Battery type	Li-ion/Lead-acid			
Battery Normal Voltage Range (Vdc)	80-600(Field adapt battery voltage range)			
Max charge/discharge Current(A)	50	50	50	50
Max charge/discharge Power(kW)	3 / 3.3	4 / 4.4	5 / 5.5	6 / 6.6
AC Grid (input and output)				
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400			
Frequency (Hz)	50 / 60			
Normal AC Current (A)	4.4	5.8	7.3	8.7
Max. cont. input/output current (A)	8 / 5.3	10.5 / 7	13 / 8.5	16 / 10.5
Rated Power (kW)	3	4	5	6
Rated Apparent Power (kVA)	3	4	5	6
Max. cont. input/output Power (kW)	4.5 / 3	6 / 4	7.5 / 5	9 / 6
Max. cont. Apparent input/output Power (kVA)	4.5 / 3	6 / 4	7.5 / 5	9 / 6
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 / 60			
Nominal Current (A)	4.4	5.8	7.3	8.7
Max. cont. current (A)	5.3	7	8.5	10.5
Max. cont. Power (kW)	3	4	5	6
Rated Apparent Power (kVA)	3	4	5	6
Max. cont. Apparent Power (kVA)	3	4	5	6
Others				
Ingress protection (IP)	IP65			
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)			

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230900421SHA-V1

Ratings:

Specifications table			
Model	AF8K-THP-0	AF10K-THP-0	AF12K-THP-0
Battery (charge/discharge)			
Battery type	Li-ion/Lead-acid		
Battery Normal Voltage Range (Vdc)	80-600 (Field adapt battery voltage range)	120-650 (Field adapt battery voltage range)	
Max charge/discharge Current(A)	50	50	50
Max charge/discharge Power(kW)	8 / 8.8	10 / 11	12 / 13.2
AC Grid (input and output)			
Normal AC Voltage (VAC)	3P+N+PE/3P+PE 230/400		
Frequency (Hz)	50 / 60		
Normal AC Current (A)	11.6	14.5	17.4
Max. cont. input/output current (A)	20 / 13.5	26 / 17	32 / 21.5
Rated Power (kW)	8	10	12
Rated Apparent Power (kVA)	8	10	12
Max. cont. input/output Power (kW)	12 / 8	15 / 10	18 / 12
Max. cont. Apparent input/output Power (kVA)	12 / 8	15 / 10	18 / 12
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 / 60		
Nominal Current (A)	11.6	14.5	17.4
Max. cont. current (A)	13.5	17	21.5
Max. cont. Power (kW)	8	10	12
Rated Apparent Power (kVA)	8	10	12
Max. cont. Apparent Power (kVA)	8	10	12

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230900421SHA-V1

Ratings:

Model	Specifications table		
	AF8K-THP-0	AF10K-THP-0	AF12K-THP-0
Others			
Ingress protection (IP)	IP65		
Protective class	Class I		
Temperature (°C)	-25°C to +60°C		
Inverter Isolation	Non-isolated (AC - BAT)		
Overvoltage category	OVC III (AC Main)		

Signature



Name: Max Jin

Position: General Manager

Date: 2024-03-25

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