

Certificate of Conformity

Certificate Number: CN-PV-230046

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacture(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant:	Afore New Energy Technology (Shanghai)Co., Ltd.		
	Build No.7, 333 Wanfang Road, Minhang District, Shanghai. China. 201112		
Product:	Hybrid Inverter		
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity		
Model:	AF3K-TH, AF4K-TH, AF5K-TH, AF6K-TH, AF8K-TH, AF10K-TH, AF12K-TH, AF15K- TH, AF17K-TH, AF20K-TH, AF25K-TH, AF30K-TH		
Brand Name <s>:</s>	Afore		
Product Complies with:	EN 50549-1:2019 Requirements for the connection of generation equipment in parallel with public distribution networks.		
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China		
	Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012		
Test Report No. <s>:</s>	230200243SHA-001		

Additional information in Appendix.

Signature

Certification Manager: Qiao Qiao Date: 10 February 2023



PRD Nº 306B



APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230046

Ratings & Principle Characteristics:

	Specific	ations table	9		1
Model	AF3K-TH	AF4K-TH	AF5K-TH	AF6K-TH	AF8K-TH
Input					
Ppv Max (kW)	5	6	7.5	9	12
Vmax PV (V)	1000	1000	1000	1000	1000
Isc PV (absolute Max.) (A)	30*2	30*2	30*2	30*2	30*2
Number of MPP trackers	2	2	2	2	2
Number of input strings	1/1	1/1	1/1	1/1	1/1
Max. PV input range (A)	20*2	20*2	20*2	20*2	20*2
MPPT Voltage Range (V)	150-850	150-850	150-850	150-850	150-850
Battery (input and output)					
Battery type	111	Li-io	n / lead acio	l etc.	
Battery Voltage Range (V)	150-	800 (Field a	dapt batter	y voltage ra	nge)
Max. Charge/Discharge	30	30	30	30	30
Current (A)					
Max. Charge/Discharge Power (kW)	3	4	5	6	8
AC Grid (input and output)					
Nominal Voltage (V)		3P+N+	PE/3P+PE 2	30/400	
Nominal Frequency (Hz)			<i>,</i> 50	111	
Max. continuous	- /				
Input/output Current (A)	8 / 5.3	10.5 / 7	13 / 8.5	16 / 10.5	20/13.5
Nominal Power (kW)	3	4	5	6	8
Max. Power (kW)	4.5 / 3.3	6/4.4	7.5 / 5.5	9/6.6	12 / 8.8
Max. apparent Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	12 / 8.8
Power Factor		1(-0.8	~+0.8 adjus	table)	I
AC Load output					
Nominal Output Voltage (V)	0.9	3P+N+	PE/3P+PE 2	30/400	
Nominal Frequency (Hz)			50		
Max. continuous		_			10 5
Input/output Current (A)	5.3	7	8.5	10.5	13.5
Nominal Output	_		_	6	-
Power(kW)	3	4	5	6	8
Max. Output Power (kW)	3	4	5	6	8
Max. apparent Power (kVA)	3	4	5	6	8
Power Factor			1		<u> </u>
others			Ŧ		



Ingress protection (IP)	IP65		
Temperature (°C)	-25°C to +60°C (Derating45°C)		
Inverter Isolation	Non-isolated		
Firmware Version	1.01		

	Specific	ations table	9		
	AF10K-	AF12K-	AF15K-	AF17K-	AF20K-
Model	TH	TH	TH	TH	TH
Input					
Ppv Max (kW)	15	18	22.5	25.5	30
Vmax PV (V)	1000	1000	1000	1000	1000
Isc PV (absolute Max.) (A)	30*2	30*2	30+48	48*2	48*2
Number of MPP trackers	2	2	2	2	2
Number of input strings	1/1	1/1	1/2	2/2	2/2
Max. PV input range (A)	20*2	20*2	20+32	32*2	32*2
MPPT Voltage Range (V)	150-850	150-850	150-850	150-850	150-850
Vdc range @ full power (V)	500-850	500-850	500-850	500-850	500-850
Battery (input and output)					
Battery type		Li-io	n / lead acid	l etc.	
Battery Voltage Range (V)	150-	800 (Field a	dapt batter	y voltage ra	nge)
Max. Charge/Discharge Current (A)	30	30	50	50	50
Max. Charge/Discharge Power (kW)	10	12	15	17	20
AC Grid (input and output)		1			
Nominal Voltage (V)	_	3P+N+	PE/3P+PE 2	30/400	
Nominal Frequency (Hz)			50	10	
Max. continuous Input/output Current (A)	26 / 17	32 / 21.5	40.5 / 27	45 / 30	48 / 32
Nominal Power (kW)	10	12	15	17	20
Max. Power (kW)	15 / 11	18/13.2	22.5 / 16.5	25.5 / 18.7	30 / 22
Max. apparent Power (kVA)	15 / 11	18 / 13.2	22.5 / 16.5	25.5 / 18.7	30 / 22
Power Factor		1(-0.8	~+0.8 adjus	table)	
AC Load output					
Nominal Output Voltage (V)	3P+N+PE/3P+PE 230/400				
Nominal Frequency (Hz)			50		
Max. continuous Input/output Current (A)	17	21.5	27	30	32
Nominal Output Power(kW)	10	12	15	17	20
Max. Output Power (kW)	10	12	15	17	20
Max. apparent Power (kVA)	10	12	15	17	20
Power Factor		I	1		
others					



Ingress protection (IP)	IP65
Temperature (°C)	-25°C to +60°C (Derating45°C)
Inverter Isolation	Non-isolated
Firmware Version	1.01

Specifications table					
	AF25K-	AF30K-			
Model	TH	ТН			
Input					
Ppv Max (kW)	37.5	45			
Vmax PV (V)	1000	1000			
Isc PV (absolute Max.) (A)	60*2	60*2			
Number of MPP trackers	2	2			
Number of input strings	2/2	2/2	1 C		
Max. PV input range (A)	40*2	40*2			
MPPT Voltage Range (V)	150-850	150-850			
Vdc range @ full power (V)	500-850	500-850			
Battery (input and output)					<u>I</u>
Battery type		Li-io	n / lead acio	etc.	
Battery Voltage Range (V)	150-		dapt batter		nge)
Max. Charge/Discharge					0,
Current (A)	60	60			
Max. Charge/Discharge					
Power (kW)	25	30			
AC Grid (input and output)		I	I	I	L
Nominal Voltage (V)	3P+N+PE/3P+PE 230/400				
Nominal Frequency (Hz)			50		
Max. continuous		== / +=			
Input/output Current (A)	60 / 40	72 / 48			
Nominal Power (kW)	25	30		111	
Max. Power (kW)	37.5 / 27.5	45 / 33		/	
Max. apparent Power	37.5 /	45 / 22			
(kVA)	27.5	45 / 33	11		
Power Factor		1(-0.8	~+0.8 adjus	table)	
AC Load output			-		
Nominal Output Voltage	0.5	20.01	ה איי שב א	20/400	
(V)		3P+N+	PE/3P+PE 2	50/400	
Nominal Frequency (Hz)			50		
Max. continuous	40	48			
Input/output Current (A)	40	48			
Nominal Output	25	30			
Power(kW)	23	50			
Max. Output Power (kW)	25	30			
Max. apparent Power (kVA)	25	30			
Power Factor		<u> </u>	1	<u> </u>	<u> </u>
others			<u>+</u>		



Ingress protection (IP)	IP65
Temperature (°C)	-25°C to +60°C (Derating45°C)
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