



Product Service

Attestation of Conformity

No. E8A 075386 0292 Rev. 00

Holder of Attestation: **Shenzhen Kstar New Energy Company Limited**

The 9th Floor, R&D Building
Kstar Industrial Park, Guangming Hi-tech Industrial Zone
518107 Shenzhen, Guangdong Province
PEOPLE'S REPUBLIC OF CHINA

Name of Object: **Converter**
(Energy Storage Inverter & Hybrid Inverter)

This Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 64772253043701

Date, 2025-09-12

(Samuel Zhang)

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Model(s):

Hybrid Inverter: KAC50DP2, KAC49.9DP2, KAC40DP2, KAC30DP2, KAC29.9DP2, KAC25DP2, KAC20DP2, KAC50DP2-S0, KAC49.9DP2-S0, KAC40DP2-S0, KAC30DP2-S0, KAC29.9DP2-S0, KAC25DP2-S0, KAC20DP2-S0
Energy Storage Inverter: KAC50D2, KAC49.9D2, KAC40D2, KAC30D2, KAC29.9D2, KAC25D2, KAC20D2, KAC50D2-S0, KAC49.9D2-S0, KAC40D2-S0, KAC30D2-S0, KAC29.9D2-S0, KAC25D2-S0, KAC20D2-S0

Description of Object:

Model	KAC50DP2	KAC49.9DP2	KAC40DP2	KAC30DP2
PV terminal parameters				
Maximum input voltage [VDC]	1000	1000	1000	1000
Rated input voltage [VDC]	720	720	720	720
MPPT voltage range [VDC]	620-800	620-800	500-800	400-800
MPPT tracker number	4	4	4	4
Maximum operating PV input current [ADC]	45/45/45/45	45/45/45/45	45/45/45/45	45/45/45/45
Maximum PV short circuit current [ADC]	60/60/60/60	60/60/60/60	60/60/60/60	60/60/60/60
Battery input/output parameters				
Battery type	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Maximum voltage [VDC]	900	900	900	900
Battery rated voltage [VDC]	720	720	720	720
Battery voltage range [VDC]	330-900	330-900	280-900	250-900
Maximum charge power [W]	50000	49900	40000	30000
Maximum discharge power [W]	50000	49900	40000	30000
Maximum charge current [ADC]	80/80	80/80	72/72	65/65
Maximum discharge current [ADC]	80/80	80/80	72/72	65/65
Grid terminal input parameters				
Rated input voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated input frequency [Hz]	50	50	50	50
Maximum continuous input current from grid to battery [AAC]	80	72	64	48
Maximum continuous input current [AAC]	160	144	128	96
Maximum continuous input power from grid	50000	49900	40000	30000

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to battery [W]				
Maximum continuous input active power [W]	100000	99800	80000	60000
Maximum continuous input apparent power [VA]	110000	99800	88000	66000
Grid terminal output parameters				
Rated output voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated output frequency [Hz]	50	50	50	50
Rated output current [AAC]	72	72	58	43
Maximum continuous output current [AAC]	80	72	64	48
Rated output active power [W]	50000	49900	40000	30000
Maximum output active power [W]	50000	49900	40000	30000
Maximum continuous output apparent power [VA]	55000	49900	44000	33000
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)			

Model	KAC29.9DP2	KAC25DP2	KAC20DP2
PV terminal parameters			
Maximum input voltage [VDC]	1000	1000	1000
Rated input voltage [VDC]	720	720	720
MPPT voltage range [VDC]	400-800	350-800	300-800
MPPT tracker number	4	4	4
Maximum operating PV input current [ADC]	45/45/45/45	45/45/45/45	45/45/45/45
Maximum PV short circuit current [ADC]	60/60/60/60	60/60/60/60	60/60/60/60
Battery input/output parameters			
Battery type	Lithium-ion	Lithium-ion	Lithium-ion
Maximum voltage [VDC]	900	900	900
Battery rated voltage [VDC]	720	720	720
Battery voltage range [VDC]	250-900	210-900	200-900
Maximum charge power [W]	29900	25000	20000
Maximum discharge power [W]	29900	25000	20000
Maximum charge current [ADC]	65/65	60/60	55/55
Maximum discharge current [ADC]	65/65	60/60	55/55
Grid terminal input parameters			
Rated input voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400

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Rated input frequency [Hz]	50	50	50
Maximum continuous input current from grid to battery [AAC]	43	40	32
Maximum continuous input current [AAC]	87	80	64
Maximum continuous input power from grid to battery [W]	29900	25000	20000
Maximum continuous input active power [W]	59800	50000	40000
Maximum continuous input apparent power [VA]	59800	55000	44000
Grid terminal output parameters			
Rated output voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated output frequency [Hz]	50	50	50
Rated output current [AAC]	43	36	29
Maximum continuous output current [AAC]	43	40	32
Rated output active power [W]	29900	25000	20000
Maximum output active power [W]	29900	25000	20000
Maximum continuous output apparent power [VA]	29900	27500	22000
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		

Model	KAC50DP2-S0	KAC49.9DP2-S0	KAC40DP2-S0	KAC30DP2-S0
PV terminal parameters				
Maximum input voltage [VDC]	1000	1000	1000	1000
Rated input voltage [VDC]	720	720	720	720
MPPT voltage range [VDC]	620-800	620-800	500-800	400-800
MPPT tracker number	4	4	4	4
Maximum operating PV input current [ADC]	45/45/45/45	45/45/45/45	45/45/45/45	45/45/45/45
Maximum PV short circuit current [ADC]	60/60/60/60	60/60/60/60	60/60/60/60	60/60/60/60
Battery input/output parameters				
Battery type	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Maximum voltage [VDC]	900	900	900	900
Battery rated voltage [VDC]	720	720	720	720
Battery voltage range [VDC]	330-900	330-900	280-900	250-900
Maximum charge power [W]	50000	49900	40000	30000
Maximum discharge power [W]	50000	49900	40000	30000
Maximum charge current [ADC]	80/80	80/80	72/72	65/65
Maximum discharge current [ADC]	80/80	80/80	72/72	65/65

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Grid terminal input parameters				
Rated input voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated input frequency [Hz]	50	50	50	50
Maximum continuous input current from grid to battery [AAC]	80	72	64	48
Maximum continuous input current [AAC]	80	72	64	48
Maximum continuous input power from grid to battery [W]	50000	49900	40000	30000
Maximum continuous input active power [W]	50000	49900	40000	30000
Maximum continuous input apparent power [VA]	55000	49900	44000	33000
Grid terminal output parameters				
Rated output voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated output frequency [Hz]	50	50	50	50
Rated output current [AAC]	72	72	58	43
Maximum continuous output current [AAC]	80	72	64	48
Rated output active power [W]	50000	49900	40000	30000
Maximum output active power [W]	50000	49900	40000	30000
Maximum continuous output apparent power [VA]	55000	49900	44000	33000
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)			

Model	KAC29.9DP2-S0	KAC25DP2-S0	KAC20DP2-S0
PV terminal parameters			
Maximum input voltage [VDC]	1000	1000	1000
Rated input voltage [VDC]	720	720	720
MPPT voltage range [VDC]	400-800	350-800	300-800
MPPT tracker number	4	4	4
Maximum operating PV input current [ADC]	45/45/45/45	45/45/45/45	45/45/45/45
Maximum PV short circuit current [ADC]	60/60/60/60	60/60/60/60	60/60/60/60
Battery input/output parameters			
Battery type	Lithium-ion	Lithium-ion	Lithium-ion
Maximum voltage [VDC]	900	900	900
Battery rated voltage [VDC]	720	720	720
Battery voltage range [VDC]	250-900	210-900	200-900
Maximum charge power [W]	29900	25000	20000
Maximum discharge power [W]	29900	25000	20000

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Maximum charge current [ADC]	65/65	60/60	55/55
Maximum discharge current [ADC]	65/65	60/60	55/55
Grid terminal input parameters			
Rated input voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated input frequency [Hz]	50	50	50
Maximum continuous input current from grid to battery [AAC]	43	40	32
Maximum continuous input current [AAC]	43	40	32
Maximum continuous input power from grid to battery [W]	29900	25000	20000
Maximum continuous input active power [W]	29900	25000	20000
Maximum continuous input apparent power [VA]	29900	27500	22000
Grid terminal output parameters			
Rated output voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated output frequency [Hz]	50	50	50
Rated output current [AAC]	43	36	29
Maximum continuous output current [AAC]	43	40	32
Rated output active power [W]	29900	25000	20000
Maximum output active power [W]	29900	25000	20000
Maximum continuous output apparent power [VA]	29900	27500	22000
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		

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Model	KAC50D2	KAC49.9D2	KAC40D2	KAC30D2
Battery input/output parameters				
Battery type	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Maximum voltage [VDC]	900	900	900	900
Battery rated voltage [VDC]	720	720	720	720
Battery voltage range [VDC]	330-900	330-900	280-900	250-900
Maximum charge power [W]	50000	49900	40000	30000
Maximum discharge power [W]	50000	49900	40000	30000
Maximum charge current [ADC]	80/80	80/80	72/72	65/65
Maximum discharge current [ADC]	80/80	80/80	72/72	65/65
Grid terminal input parameters				
Rated input voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated input frequency [Hz]	50	50	50	50
Maximum continuous input current from grid to battery [AAC]	80	72	64	48
Maximum continuous input current [AAC]	160	144	128	96
Maximum continuous input power from grid to battery [W]	50000	49900	40000	30000
Maximum continuous input active power [W]	100000	99800	80000	60000
Maximum continuous input apparent power [VA]	110000	99800	88000	66000
Grid terminal output parameters				
Rated output voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated output frequency [Hz]	50	50	50	50
Rated output current [AAC]	72	72	58	43
Maximum continuous output current [AAC]	80	72	64	48
Rated output active power [W]	50000	49900	40000	30000
Maximum output active power [W]	50000	49900	40000	30000
Maximum continuous output apparent power [VA]	55000	49900	44000	33000
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)			

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Model	KAC29.9D2	KAC25D2	KAC20D2
Battery input/output parameters			
Battery type	Lithium-ion	Lithium-ion	Lithium-ion
Maximum voltage [VDC]	900	900	900
Battery rated voltage [VDC]	720	720	720
Battery voltage range [VDC]	250-900	210-900	200-900
Maximum charge power [W]	29900	25000	20000
Maximum discharge power [W]	29900	25000	20000
Maximum charge current [ADC]	65/65	60/60	55/55
Maximum discharge current [ADC]	65/65	60/60	55/55
Grid terminal input parameters			
Rated input voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated input frequency [Hz]	50	50	50
Maximum continuous input current from grid to battery [AAC]	43	40	32
Maximum continuous input current [AAC]	87	80	64
Maximum continuous input power from grid to battery [W]	29900	25000	20000
Maximum continuous input active power [W]	59800	50000	40000
Maximum continuous input apparent power [VA]	59800	55000	44000
Grid terminal output parameters			
Rated output voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated output frequency [Hz]	50	50	50
Rated output current [AAC]	43	36	29
Maximum continuous output current [AAC]	43	40	32
Rated output active power [W]	29900	25000	20000
Maximum output active power [W]	29900	25000	20000
Maximum continuous output apparent power [VA]	29900	27500	22000
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		

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Model	KAC50D2-S0	KAC49.9D2-S0	KAC40D2-S0	KAC30D2-S0
Battery input/output parameters				
Battery type	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Maximum voltage [VDC]	900	900	900	900
Battery rated voltage [VDC]	720	720	720	720
Battery voltage range [VDC]	330-900	330-900	280-900	250-900
Maximum charge power [W]	50000	49900	40000	30000
Maximum discharge power [W]	50000	49900	40000	30000
Maximum charge current [ADC]	80/80	80/80	72/72	65/65
Maximum discharge current [ADC]	80/80	80/80	72/72	65/65
Grid terminal input parameters				
Rated input voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated input frequency [Hz]	50	50	50	50
Maximum continuous input current from grid to battery [AAC]	80	72	64	48
Maximum continuous input current [AAC]	80	72	64	48
Maximum continuous input power from grid to battery [W]	50000	49900	40000	30000
Maximum continuous input active power [W]	50000	49900	40000	30000
Maximum continuous input apparent power [VA]	55000	49900	44000	33000
Grid terminal output parameters				
Rated output voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated output frequency [Hz]	50	50	50	50
Rated output current [AAC]	72	72	58	43
Maximum continuous output current [AAC]	80	72	64	48
Rated output active power [W]	50000	49900	40000	30000
Maximum output active power [W]	50000	49900	40000	30000
Maximum continuous output apparent power [VA]	55000	49900	44000	33000
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)			

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Model	KAC29.9D2-S0	KAC25D2-S0	KAC20D2-S0
Battery input/output parameters			
Battery type	Lithium-ion	Lithium-ion	Lithium-ion
Maximum voltage [VDC]	900	900	900
Battery rated voltage [VDC]	720	720	720
Battery voltage range [VDC]	250-900	210-900	200-900
Maximum charge power [W]	29900	25000	20000
Maximum discharge power [W]	29900	25000	20000
Maximum charge current [ADC]	65/65	60/60	55/55
Maximum discharge current [ADC]	65/65	60/60	55/55
Grid terminal input parameters			
Rated input voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated input frequency [Hz]	50	50	50
Maximum continuous input current from grid to battery [AAC]	43	40	32
Maximum continuous input current [AAC]	43	40	32
Maximum continuous input power from grid to battery [W]	29900	25000	20000
Maximum continuous input active power [W]	29900	25000	20000
Maximum continuous input apparent power [VA]	29900	27500	22000
Grid terminal output parameters			
Rated output voltage [VAC]	3P+N+PE, 230/400	3P+N+PE, 230/400	3P+N+PE, 230/400
Rated output frequency [Hz]	50	50	50
Rated output current [AAC]	43	36	29
Maximum continuous output current [AAC]	43	40	32
Rated output active power [W]	29900	25000	20000
Maximum output active power [W]	29900	25000	20000
Maximum continuous output apparent power [VA]	29900	27500	22000
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		

Remark: Environments: other than residential environment.

The certification is only valid if no transmitting radio equipment is included in the device (BT,WiFi, 4G, RFID.etc).

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**Tested
according to:**

EN 62920:2017/A1:2021
 EN IEC 61000-6-2:2019
 EN IEC 61000-6-4:2019
 EN IEC 61000-3-11:2019
 EN 61000-3-12:2011

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