



Product Service

CERTIFICATE

No. B 075386 0293 Rev. 00

Holder of Certificate: **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

Certification Mark:



Product: **Converter**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290253043601

Valid until: 2030-09-14

Date, 2025-09-15

(Billy Qiu)

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Model(s):

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
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

Parameters:

Model:	KAC50 DP2	KAC49.9 DP2	KAC40 DP2	KAC30 DP2	KAC29.9 DP2	KAC25 DP2	KAC20 DP2
PV terminal input parameters:							
Maximum open-circuit voltage [Vdc]	1000						
Rated input voltage [Vdc]	720						
PV input operating voltage range [Vdc]	250-950						
MPPT voltage range (Full load) [Vdc]	620-800	620-800	500-800	400-800	400-800	350-800	300-800
Maximum operating PV input current [Adc]	45*4	45*4	45*4	45*4	45*4	45*4	45*4
Maximum PV short circuit current [Adc]	60*4	60*4	60*4	60*4	60*4	60*4	60*4
Over voltage category	OVC II						
Battery terminal input/output parameters:							
Battery type	Lithium ion						
Rated voltage range [Vdc]	180-850						
Battery voltage range [Vdc]	150-900						
Maximum charging/discharging power [kW]	50	49.9	40	30	29.9	25	20
Maximum charging/discharging current [Vdc]	80*2	80*2	72*2	65*2	65*2	60*2	55*2
Over voltage category	OVC II						
AC terminal input parameters:							
Rated input voltage [Vac]	230/400, 3L+N+PE						
Maximum continuous input current [Aac]	160	144	128	96	87	80	64
Maximum continuous input active power [kW]	100	99.8	80	60	59.8	50	40
Maximum continuous input apparent power [VA]	110	99.8	88	66	59.8	55	44

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Rated input frequency [Hz]	50						
Over voltage category	OVC III						
AC terminal output parameters:							
Rated output voltage [Vac]	230/400, 3L+N+PE						
Maximum continuous output current [Aac]	80	72	64	48	43	40	32
Maximum continuous output active power [kW]	50	49.9	40	30	29.9	25	20
Maximum continuous output apparent power [kVA]	55	49.9	44	33	29.9	27.5	22
Rated output frequency [Hz]	50						
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)						
Backup terminal output parameters							
Rated output voltage [Vac]	230/400, 3L+N+PE						
Maximum continuous output current [Aac]	80	72	64	48	43	40	32
Maximum continuous output power [kW]	50	49.9	40	30	29.9	25	20
Rated output frequency [Hz]	50						
Genset terminal input parameters							
Rated input voltage [Vac]	230/400, 3L+N+PE						
Maximum continuous input current [Aac]	80	72	64	48	43	40	32
Rated input frequency [Hz]	50/60						
Over voltage category	OVC III						
General							
Operating temperature range [(°C)]	-25 to 60						
Protection class	Class 1						
Ingress protection	IP66						

Model:	KAC50 DP2-S0	KAC49.9 DP2-S0	KAC40 DP2-S0	KAC30 DP2-S0	KAC29.9 DP2-S0	KAC25 DP2-S0	KAC20 DP2-S0
PV terminal input parameters:							
Maximum open-circuit voltage [Vdc]	1000						
Rated input voltage [Vdc]	720						
PV input operating voltage range [Vdc]	250-950						
MPPT voltage range (Full load) [Vdc]	620-800	620-800	500-800	400-800	400-800	350-800	300-800
Maximum operating PV input current [A _{dc}]	45*4	45*4	45*4	45*4	45*4	45*4	45*4

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Maximum PV short circuit current [Adc]	60*4	60*4	60*4	60*4	60*4	60*4	60*4
Over voltage category	OVC II						
Battery terminal input/output parameters:							
Battery type	Lithium ion						
Rated voltage range [Vdc]	180-850						
Battery voltage range [Vdc]	150-900						
Maximum charging/discharging power [kW]	50	49.9	40	30	29.9	25	20
Maximum charging/discharging current [Vdc]	80*2	80*2	72*2	65*2	65*2	60*2	55*2
Over voltage category	OVC II						
AC terminal input parameters:							
Rated input voltage [Vac]	230/400, 3L+N+PE						
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Maximum continuous input apparent power [VA]	55	49.9	44	33	29.9	27.5	22
Rated input frequency [Hz]	50						
Over voltage category	OVC III						
AC terminal output parameters:							
Rated output voltage [Vac]	230/400, 3L+N+PE						
Maximum continuous output current [Aac]	80	72	64	48	43	40	32
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Rated output frequency [Hz]	50						
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)						
General							
Operating temperature range [(°C]	-25 to 60						
Protection class	Class 1						
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Model:	KAC50 D2	KAC49.9 D2	KAC40 D2	KAC30 D2	KAC29.9 D2	KAC25 D2	KAC20 D2
Battery terminal input/output parameters:							
Battery type	Lithium ion						
Rated voltage range [Vdc]	180-850						
Battery voltage range [Vdc]	150-900						
Maximum charging/discharging power [kW]	50	49.9	40	30	29.9	25	20
Maximum charging/discharging current [Vdc]	80*2	80*2	72*2	65*2	65*2	60*2	55*2
Over voltage category	OVC II						
AC terminal input parameters:							
Rated input voltage [Vac]	230/400, 3L+N+PE						
Maximum continuous input current [Aac]	160	144	128	96	87	80	64
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Maximum continuous output apparent power [kVA]	55	49.9	44	33	29.9	27.5	22
Rated output frequency [Hz]	50						
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)						
Backup terminal output parameters							
Rated output voltage [Vac]	230/400, 3L+N+PE						
Maximum continuous output current [Aac]	80	72	64	48	43	40	32
Maximum continuous output power [kW]	50	49.9	40	30	29.9	25	20
Rated output frequency [Hz]	50						
Genset terminal input parameters							
Rated input voltage [Vac]	230/400, 3L+N+PE						

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Maximum continuous input current [Aac]	80	72	64	48	43	40	32
Rated input frequency [Hz]	50/60						
Over voltage category	OVC III						
General							
Operating temperature range [(°C)]	-25 to 60						
Protection class	Class 1						
Ingress protection	IP66						

Model:	KAC50 D2-S0	KAC49.9 D2-S0	KAC40 D2-S0	KAC30 D2-S0	KAC29.9 D2-S0	KAC25 D2-S0	KAC20 D2-S0
Battery terminal input/output parameters:							
Battery type	Lithium ion						
Rated voltage range [Vdc]	180-850						
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Maximum continuous output active power [kW]	50	49.9	40	30	29.9	25	20
Maximum continuous output apparent power [kVA]	55	49.9	44	33	29.9	27.5	22
Rated output frequency [Hz]	50						

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Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)
General	
Operating temperature range [(°C)]	-25 to 60
Protection class	Class 1
Ingress protection	IP66

Tested according to:

- IEC 62477-1:2012
- IEC 62477-1:2012/AMD1:2016
- EN 62477-1:2012/A12:2021
- IEC 62109-1:2010
- EN 62109-1:2010
- IEC 62109-2:2011
- EN 62109-2:2011
- IEC 62991:2022
- EN IEC 62991:2025