



Ref. Certif. No.

SG PSB-PV-00054

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Converter
Name and address of the applicant	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 and address of the manufacturer	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 and address of the factory	Shenzhen KSTAR Science & Technology Co., Ltd. Guangming Branch Kstar Tech-Industrial Park, 7th Road, Western Area, Hi-Tech Industrial Zone, Tianliao Community, Yutang Street, Guangming District, 518107 Shenzhen City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA
Ratings and principal characteristics	See page 2-5
Trademark / Brand (if any)	See page 2
Model/type Ref.	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
A sample of the product was tested and found to be in conformity with	IEC 62109-1:2010 IEC 62109-2:2011
as shown in the Test Report Ref. No. which forms part of this certificate	085-253214501-000

Page 1 of 5

This CB Test Certificate is issued by the National Certification Body

CBS 075386 0322 Rev. 00

Date, 2026-03-13

(Billy Qiu)



TÜV SÜD PSB Pte Ltd

15 International Business Park TÜV SÜD @ IBP

Singapore 609937

PSB Singapore

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Trademark / Brand (Image)



Ratings and principal characteristics

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
Overvoltage category	OVC II						
Battery terminal input/output parameters:							
Battery type	Lithium ion						
Battery rated voltage [Vdc]	720						
Battery voltage range [Vdc]	150-900						
Maximum charging/discharging power [kW]	50	49.9	40	30	29.9	25	20
Maximum charging/discharging current [Adc]	80*2	80*2	72*2	65*2	65*2	60*2	55*2
Overvoltage 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
Rated input frequency [Hz]	50/60						

Page 2 of 5

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Overvoltage 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]	50/60						
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]	50/60						
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						
Overvoltage category	OVC II						
General							
Operating temperature range [°C]	-25 to 60						
Protective class	Class I						
Ingress protection	IP66						

Page 3 of 5

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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 [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
Overvoltage category	OVC II						
Battery terminal input/output parameters:							
Battery type	Lithium ion						
Battery rated voltage [Vdc]	720						
Battery voltage range [Vdc]	150-900						
Maximum charging/discharging power [kW]	50	49.9	40	30	29.9	25	20
Maximum charging/discharging current [Adc]	80*2	80*2	72*2	65*2	65*2	60*2	55*2
Overvoltage category	OVC II						
AC terminal input parameters:							
Rated input voltage [Vac]	230/400, 3L+N+PE						
Maximum continuous input current [Aac]	80	72	64	48	43	40	32
Maximum continuous input active power [kW]	50	49.9	40	30	29.9	25	20
Maximum continuous input apparent power [VA]	55	49.9	44	33	29.9	27.5	22
Rated input frequency [Hz]	50/60						
Overvoltage 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

Page 4 of 5

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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]	50/60						
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)						
General							
Operating temperature range [°C]	-25 to 60						
Protective class	Class I						
Ingress protection	IP66						

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