



Product Service

CERTIFICATE

No. B 075386 0308 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**

Model(s): **KAC125DP2, KAC110DP2, KAC100DP2, KAC80DP2, KAC125D2, KAC110D2, KAC100D2, KAC80D2, KAC125DP2-S0, KAC110DP2-S0, KAC100DP2-S0, KAC80DP2-S0, KAC125D2-S0, KAC110D2-S0, KAC100D2-S0, KAC80D2-S0**

Parameters: See page 2-7

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

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.: 64290253043201

Valid until: 2030-12-03

Date, 2025-12-09

(Billy Qiu)

CERTIFICATE

No. B 075386 0308 Rev. 00

Parameters:

Model:	KAC125DP2	KAC110DP2	KAC100DP2	KAC80DP2
PV terminal input parameters:				
Maximum input voltage [Vdc]	1000			
Rated input voltage [Vdc]	720			
PV input operating voltage range [Vdc]	250-950			
MPPT voltage range (Full load) [Vdc]	700-800	660-800	620-800	550-800
Maximum operating PV input current [Adc]	45*8			
Maximum PV short circuit current [Adc]	60*8			
Over voltage category	OVC II			
Battery terminal input/output parameters:				
Battery type	Lithium ion			
Battery nominal voltage [Vdc]	820			
Battery voltage range [Vdc]	200-950			
Maximum charging/discharging power [kW]	125	110	110	88
Maximum charging/discharging current [Adc]	80*2			
Over voltage category	OVC II			
Grid terminal output parameters:				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum output apparent power [kVA]	137.5	121	110	88
Maximum output active power [kW]	125	110	100	80
Maximum continuous output current [Aac] at 230 Vac	199	175	160	127
Maximum continuous output current [Aac] at 220 Vac	208	183	167	133
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			
Grid terminal input parameters:				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum continuous output current [Aac] at 230 Vac	217			
Maximum continuous output current [Aac] at 220 Vac	227			
Maximum input active power [kW]	150			
Rated input/output frequency [Hz]	50/60			

CERTIFICATE

No. B 075386 0308 Rev. 00

Over voltage category	OVC III			
Backup output rating				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum continuous output power [kW]	125	110	100	80
Single-phase power maximum continuous output [kW]	50			
Maximum continuous output current [Aac] at 230 Vac	217			
Maximum continuous output current [Aac] at 220 Vac	227			
Rated output frequency [Hz]	50/60			
Genset terminal input parameter				
Rated input voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum input apparent power [kW]	125	121	110	88
Maximum input active power [kW]	125	110	100	80
Maximum continuous output current [Aac] at 230 Vac	217			
Maximum continuous output current [Aac] at 220 Vac	227			
Rated input frequency [Hz]	50/60			
Over voltage category	OVC II			
General				
Operating temperature range [°C]	-25 to 60			
Protective class	Class I			
Ingress protection	IP66			

Model:	KAC125DP2-S0	KAC110DP2-S0	KAC100DP2-S0	KAC80DP2-S0
PV terminal input parameters:				
Maximum input voltage [Vdc]	1000			
Rated input voltage [Vdc]	720			
PV input operating voltage range [Vdc]	250-950			
MPPT voltage range (Full load) [Vdc]	700-800	660-800	620-800	550-800
Maximum operating PV input current [Adc]	45*8			
Maximum PV short circuit current [Adc]	60*8			

CERTIFICATE

No. B 075386 0308 Rev. 00

Over voltage category	OVC II			
Battery terminal input/output parameters:				
Battery type	Lithium ion			
Battery nominal voltage [Vdc]	820			
Battery voltage range [Vdc]	200-950			
Maximum charging/discharging power [kW]	125	110	110	88
Maximum charging/discharging current [Adc]	80*2			
Over voltage category	OVC II			
Grid terminal output parameters:				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum output apparent power [kVA]	137.5	121	110	88
Maximum output active power [kW]	125	110	100	80
Maximum continuous output current [Aac] at 230 Vac	199	175	160	127
Maximum continuous output current [Aac] at 220 Vac	208	183	167	133
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			
Grid terminal input parameters:				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum continuous output current [Aac] at 230 Vac	217			
Maximum continuous output current [Aac] at 220 Vac	227			
Maximum input active power [kW]	150			
Rated input/output frequency [Hz]	50/60			
Over voltage category	OVC III			
General				
Operating temperature range [°C]	-25 to 60			
Protective class	Class I			
Ingress protection	IP66			

CERTIFICATE

No. B 075386 0308 Rev. 00

Model:	KAC125D2	KAC110D2	KAC100D2	KAC80D2
Battery terminal input/output parameters:				
Battery type	Lithium ion			
Battery nominal voltage [Vdc]	820			
Battery voltage range [Vdc]	200-950			
Maximum continuous output current [Aac] at 230 Vac	125	110	110	88
Maximum continuous output current [Aac] at 220 Vac	80*2			
Over voltage category	OVC II			
Grid terminal output parameters:				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum output apparent power [kVA]	137.5	121	110	88
Maximum output active power [kW]	125	110	100	80
Maximum continuous output current [Aac] at 230 Vac	199	175	160	127
Maximum continuous output current [Aac] at 220 Vac	208	183	167	133
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			
Grid terminal input parameters:				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum continuous output current [Aac] at 230 Vac	217			
Maximum continuous output current [Aac] at 220 Vac	227			
Maximum input active power [kW]	150			
Rated input/output frequency [Hz]	50/60			
Over voltage category	OVC III			
Backup output rating				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum continuous output power [kW]	125	110	100	80
Single-phase power maximum continuous output [kW]	50			
Maximum continuous output current [Aac] at 230 Vac	217			
Maximum continuous output current [Aac] at 220 Vac	227			
Rated output frequency [Hz]	50/60			
Genset terminal input parameter				
Rated input voltage [Vac]	230/400, 220/380, 3L+N+PE			

CERTIFICATE

No. B 075386 0308 Rev. 00

Maximum input apparent power [kW]	125	121	110	88
Maximum input active power [kW]	125	110	100	80
Maximum continuous output current [Aac] at 230 Vac	217			
Maximum continuous output current [Aac] at 220 Vac	227			
Rated input frequency [Hz]	50/60			
Over voltage category	OVC II			
General				
Operating temperature range [°C]	-25 to 60			
Protective class	Class I			
Ingress protection	IP66			

Model:	KAC125D2-S0	KAC110D2-S0	KAC100D2-S0	KAC80D2-S0
Battery terminal input/output parameters:				
Battery type	Lithium ion			
Battery nominal voltage [Vdc]	820			
Battery voltage range [Vdc]	200-950			
Maximum charging/discharging power [kW]	125	110	110	88
Maximum charging/discharging current [Adc]	80*2			
Over voltage category	OVC II			
Grid terminal output parameters:				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum output apparent power [kVA]	137.5	121	110	88
Maximum output active power [kW]	125	110	100	80
Maximum continuous output current [Aac] at 230 Vac	199	175	160	127
Maximum continuous output current [Aac] at 220 Vac	208	183	167	133
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			
Grid terminal input parameters:				
Rated output voltage [Vac]	230/400, 220/380, 3L+N+PE			
Maximum continuous output current [Aac] at 230 Vac	217			

CERTIFICATE

No. B 075386 0308 Rev. 00

Maximum continuous output current [Aac] at 220 Vac	227
Maximum input active power [kW]	150
Rated input/output frequency [Hz]	50/60
Over voltage category	OVC III
General	
Operating temperature range [°C]	-25 to 60
Protective class	Class I
Ingress protection	IP66