



Product Service

Compliance Document

No. D 075386 0323 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

Product: **Converter**
(Energy Storage Inverter & Hybrid Inverter)

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Test report no.: 64290253043501

Date, 2026-01-15

(Billy Qiu)



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Model(s):

Hybrid Inverter:

**KAC125DP2, KAC110DP2, KAC100DP2,
KAC80DP2, KAC125DP2-S0,
KAC110DP2-S0, KAC100DP2-S0,
KAC80DP2-S0**

Energy Storage Inverter:

**KAC125D2, KAC110D2, KAC100D2,
KAC80D2, KAC125D2-S0, KAC110D2-S0,
KAC100D2-S0, KAC80D2-S0**

Parameters:

Model	KAC125DP2	KAC110DP2	KAC100DP2	KAC80DP2
PV terminal parameters				
Maximum input voltage [V _{DC}]	1000	1000	1000	1000
Rated input voltage [V _{DC}]	720	720	720	720
PV input operating voltage range [V _{DC}]	250-950	250-950	250-950	250-950
MPPT voltage range (full load) [V _{DC}]	700-800	660-800	620-800	550-800
MPPT tracker number	8	8	8	8
Maximum operating PV input current [A _{DC}]	45*8	45*8	45*8	45*8
Maximum PV short circuit current [A _{DC}]	60*8	60*8	60*8	60*8
Battery input/output parameters				
Battery type	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Battery rated voltage [V _{DC}]	820	820	820	820
Battery voltage range [V _{DC}]	200-950	200-950	200-950	200-950
Maximum charge power [W]	125000	110000	110000	88000
Maximum discharge power [W]	125000	110000	110000	88000
Maximum charge current [A _{DC}]	80*2	80*2	80*2	80*2
Maximum discharge current [A _{DC}]	80*2	80*2	80*2	80*2
Grid terminal input parameters				
Rated input voltage [V _{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380



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Rated input frequency [Hz]	50/60	50/60	50/60	50/60
Maximum continuous input current [A _{AC}]	227	227	227	227
Maximum continuous input power from grid to battery [W]	125000	110000	110000	88000
Maximum continuous input active power [W]	150000	150000	150000	150000
Maximum continuous input apparent power [VA]	172000	172000	172000	165000
Grid terminal output parameters				
Rated output voltage [V _{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380
Rated output frequency [Hz]	50/60	50/60	50/60	50/60
Rated output current [A _{AC}]	181/189	160/167	145/152	116/121
Maximum continuous output current [A _{AC}]	199/208	175/183	160/167	127/133
Rated output active power [W]	125000	110000	100000	80000
Maximum output active power [W]	125000	110000	100000	80000
Maximum continuous output apparent power [VA]	137500	121000	110000	88000
Power factor	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			
Backup terminal parameters				
Rated output voltage [V _{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380
Rated output frequency [Hz]	50/60	50/60	50/60	50/60
Rated output current [A _{AC}]	181/189	160/167	145/152	116/121
Maximum output current [A _{AC}]	199/208	175/183	160/167	127/133
Rated output power [W]	125000	110000	100000	80000
Maximum output power [W]	137500	121000	110000	88000
Maximum output power without PV input [W]	137500	121000	110000	88000
General				
Protection class	I			
Ingress protection	IP66			
Ambient Tem. [°C]	-25~60			



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Model	KAC125DP2-S0	KAC110DP2-S0	KAC100DP2-S0	KAC80DP2-S0
PV terminal parameters				
Maximum input voltage [V _{DC}]	1000	1000	1000	1000
Rated input voltage [V _{DC}]	720	720	720	720
PV input operating voltage range [V _{DC}]	250-950	250-950	250-950	250-950
MPPT voltage range (full load) [V _{DC}]	700-800	660-800	620-800	550-800
MPPT tracker number	8	8	8	8
Maximum operating PV input current [A _{DC}]	45*8	45*8	45*8	45*8
Maximum PV short circuit current [A _{DC}]	60*8	60*8	60*8	60*8
Battery input/output parameters				
Battery type	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Battery rated voltage [V _{DC}]	820	820	820	820
Battery voltage range [V _{DC}]	200-950	200-950	200-950	200-950
Maximum charge power [W]	125000	110000	110000	88000
Maximum discharge power [W]	125000	110000	110000	88000
Maximum charge current [A _{DC}]	80*2	80*2	80*2	80*2
Maximum discharge current [A _{DC}]	80*2	80*2	80*2	80*2
Grid terminal input parameters				
Rated input voltage [V _{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380
Rated input frequency [Hz]	50/60	50/60	50/60	50/60
Maximum continuous input current [A _{AC}]	190	167	167	133
Maximum continuous input power from grid to battery [W]	125000	110000	110000	88000
Maximum continuous input active power [W]	125000	110000	110000	88000
Maximum continuous input apparent power [VA]	137500	121000	110000	88000
Grid terminal output parameters				
Rated output voltage [V _{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380



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Rated output frequency [Hz]	50/60	50/60	50/60	50/60
Rated output current [A _{AC}]	181/189	160/167	145/152	116/121
Maximum continuous output current [A _{AC}]	199/208	175/183	160/167	127/133
Rated output active power [W]	125000	110000	100000	80000
Maximum output active power [W]	125000	110000	100000	80000
Maximum continuous output apparent power [VA]	137500	121000	110000	88000
Power factor	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			
General				
Protection class	I			
Ingress protection	IP66			
Ambient Tem. [°C]	-25~60			

Model	KAC125D2	KAC110D2	KAC100D2	KAC80D2
Battery input/output parameters				
Battery type	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Battery rated voltage [V_{DC}]	820	820	820	820
Battery voltage range [V_{DC}]	200-950	200-950	200-950	200-950
Maximum charge power [W]	125000	110000	110000	88000
Maximum discharge power [W]	125000	110000	110000	88000
Maximum charge current [I_{DC}]	80*2	80*2	80*2	80*2
Maximum discharge current [I_{DC}]	80*2	80*2	80*2	80*2
Grid terminal input parameters				
Rated input voltage [V_{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380
Rated input frequency [Hz]	50/60	50/60	50/60	50/60
Maximum continuous input current [I_{AC}]	227	227	227	227
Maximum continuous input power from grid to battery [W]	125000	110000	110000	88000
Maximum continuous input active power [W]	150000	150000	150000	150000
Maximum continuous input apparent power [VA]	172000	172000	172000	165000
Grid terminal output parameters				



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Rated output voltage [V _{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380
Rated output frequency [Hz]	50/60	50/60	50/60	50/60
Rated output current [A _{AC}]	181/189	160/167	145/152	116/121
Maximum continuous output current [A _{AC}]	199/208	175/183	160/167	127/133
Rated output active power [W]	125000	110000	100000	80000
Maximum output active power [W]	125000	110000	100000	80000
Maximum continuous output apparent power [VA]	137500	121000	110000	88000
Power factor	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			
Backup terminal parameters				
Rated output voltage [V _{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380
Rated output frequency [Hz]	50/60	50/60	50/60	50/60
Rated output current [A _{AC}]	181/189	160/167	145/152	116/121
Maximum output current [A _{AC}]	199/208	175/183	160/167	127/133
Rated output power [W]	125000	110000	100000	80000
Maximum output power [W]	137500	121000	110000	88000
Maximum output power without PV input [W]	137500	121000	110000	88000
General				
Protection class	I			
Ingress protection	IP66			
Ambient Tem. [°C]	-25~60			

Model	KAC125D2-S0	KAC110D2-S0	KAC100D2-S0	KAC80D2-S0
Battery input/output parameters				
Battery type	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Battery rated voltage [V _{DC}]	820	820	820	820
Battery voltage range [V _{DC}]	200-950	200-950	200-950	200-950
Maximum charge power [W]	125000	110000	110000	88000
Maximum discharge power [W]	125000	110000	110000	88000
Maximum charge current [A _{DC}]	80*2	80*2	80*2	80*2



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Maximum discharge current [A _{DC}]	80*2	80*2	80*2	80*2
Grid terminal input parameters				
Rated input voltage [V _{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380
Rated input frequency [Hz]	50/60	50/60	50/60	50/60
Maximum continuous input current [A _{AC}]	190	167	167	133
Maximum continuous input power from grid to battery [W]	125000	110000	110000	88000
Maximum continuous input active power [W]	125000	110000	110000	88000
Maximum continuous input apparent power [VA]	137500	121000	110000	88000
Grid terminal output parameters				
Rated output voltage [V _{AC}]	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380	3P+N+PE, 230/400 220/380
Rated output frequency [Hz]	50/60	50/60	50/60	50/60
Rated output current [A _{AC}]	181/189	160/167	145/152	116/121
Maximum continuous output current [A _{AC}]	199/208	175/183	160/167	127/133
Rated output active power [W]	125000	110000	100000	80000
Maximum output active power [W]	125000	110000	100000	80000
Maximum continuous output apparent power [VA]	137500	121000	110000	88000
Power factor	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			
General				
Protection class	I			
Ingress protection	IP66			
Ambient Tem. [°C]	-25~60			

**Tested
according to:**

IEC 60068-2-1:2007
IEC 60068-2-2:2007
IEC 60068-2-14:2023
IEC 60068-2-30:2005
IEC 61683:1999