



Product Service

Compliance Document

No. D 087538 0018 Rev. 03

Holder of Certificate: **Shenzhen Senergy Technology Co., Ltd.**
Block D, BC Park, No.18, Xiusha Rd.
Shatian Kengzi Sub-district
Pingshan District
518122 Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter
(Hybrid Inverter)**

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Test report no.: 64290233012504

Date, 2024-08-09

(Billy Qiu)



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Model(s): SE 5KHB-D3, SE 6KHB-D3,
SE 8KHB-D3, SE 10KHB-D3
SE 5KHB-D3P, SE 6KHB-D3P,
SE 8KHB-D3P, SE 10KHB-D3P

Parameters:

| Model | SE 5KHB-D3 | SE 6KHB-D3 | SE 8KHB-D3 | SE 10KHB-D3 |
|--|-----------------------|---------------|---------------|----------------|
| PV terminal parameters | | | | |
| Maximum PV voltage [V _{DC}] | 1000 | | | |
| Rated voltage [V _{DC}] | 650 | | | |
| MPPT voltage range [V _{DC}] | 160 - 950 | | | |
| MPPT voltage range (full load) [V _{DC}] | 330 - 800 | | 370 - 800 | |
| Maximum input current [A _{DC}] | 15/15 | | 20/30 | |
| Isc PV [A _{DC}] | 20/20 | | 30/40 | |
| MPPT tracker number | 2 | | | |
| Maximum input power [W] | 9000 | | 15000 | |
| Battery input/output parameters | | | | |
| Battery type | Lithium-ion/Lead-acid | | | |
| Maximum voltage [V _{DC}] | 600 | | | |
| Battery rated voltage [V _{DC}] | 504 | | | |
| Battery voltage range [V _{DC}] | 150 - 600 | | | |
| Maximum charge power [W] | 9000 | 9000 | 15000 | 15000 |
| Maximum discharge power [W] | 5800 | 7000 | 9100 | 11300 |
| Maximum charge current [A _{DC}] | 25 | | 50 | |
| Maximum discharge current [A _{DC}] | 25 | | 50 | |
| Maximum charge power from grid to battery [W] | 5500 | 6600 | 8800 | 11000 |
| Grid input terminal parameters | | | | |
| Rated input voltage [V _{AC}] | 3P+N+PE, 230/400 | | | |
| Rated input frequency [Hz] | 50 | | | |
| Maximum continuous input current from grid to battery [A _{AC}] | 8.0 | 9.6 | 12.7 | 16.0 |
| Maximum continuous input current [A _{AC}] | 25.0 | 25.0 | 25.0 | 25.0 |
| Maximum continuous input power from grid to battery [W] | 5500 | 6600 | 8800 | 11000 |
| Maximum continuous input active power [W] | 15800 | 15800 | 15800 | 15800 |
| Maximum continuous input apparent power [VA] | 15800 | 15800 | 15800 | 15800 |
| Grid output terminal parameters | | | | |
| Rated output voltage [V _{AC}] | 3P+N+PE, 230/400 | | | |



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| | | | | |
|--|---|------|------|-------|
| Rated output frequency [Hz] | 50 | | | |
| Rated output current [A _{AC}] | 7.2 | 8.7 | 11.6 | 14.5 |
| Maximum continuous output current [A _{AC}] | 8.0 | 9.6 | 12.7 | 16.0 |
| Rated output active power [W] | 5000 | 6000 | 8000 | 10000 |
| Maximum output active power [W] | 5500 | 6600 | 8800 | 11000 |
| Maximum output apparent power [VA] | 5500 | 6600 | 8800 | 11000 |
| Power factor range | 0.8 inductive(under-excited) to 0.8 capacitive(over-excited) | | | |

| Model | SE 5KHB-D3P | SE 6KHB-D3P | SE 8KHB-D3P | SE 10KHB-D3P |
|--|-----------------------|-------------|-------------|--------------|
| PV terminal parameters | | | | |
| Maximum PV voltage [V _{DC}] | 1000 | | | |
| Rated voltage [V _{DC}] | 650 | | | |
| MPPT voltage range [V _{DC}] | 160 - 950 | | | |
| MPPT voltage range (full load) [V _{DC}] | 370 - 800 | | | |
| Maximum input current [A _{DC}] | 20/30 | | | |
| Isc PV [A _{DC}] | 30/40 | | | |
| MPPT tracker number | 2 | | | |
| Maximum input power [W] | 15000 | | | |
| Battery input/output parameters | | | | |
| Battery type | Lithium-ion/Lead-acid | | | |
| Maximum voltage [V _{DC}] | 600 | | | |
| Battery rated voltage [V _{DC}] | 504 | | | |
| Battery voltage range [V _{DC}] | 120 - 600 | | | |
| Maximum charge power [W] | 15000 | 15000 | 15000 | 15000 |
| Maximum discharge power [W] | 5800 | 7000 | 9100 | 11300 |
| Maximum charge current [A _{DC}] | 50 | | 50 | |
| Maximum discharge current [A _{DC}] | 50 | | 50 | |
| Maximum charge power from grid to battery [W] | 5500 | 6600 | 8800 | 11000 |
| Grid input terminal parameters | | | | |
| Rated input voltage [V _{AC}] | 3P+N+PE, 230/400 | | | |
| Rated input frequency [Hz] | 50 | | | |
| Maximum continuous input current from grid to battery [A _{AC}] | 8.0 | 9.6 | 12.7 | 16.0 |
| Maximum continuous input current [A _{AC}] | 25.0 | 25.0 | 25.0 | 25.0 |
| Maximum continuous input power from grid to battery [W] | 5500 | 6600 | 8800 | 11000 |
| Maximum continuous input active power [W] | 15800 | 15800 | 15800 | 15800 |



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|--|---|-------|-------|-------|
| Maximum continuous input apparent power [VA] | 15800 | 15800 | 15800 | 15800 |
| Grid output terminal parameters | | | | |
| Rated output voltage [V _{AC}] | 3P+N+PE, 230/400 | | | |
| Rated output frequency [Hz] | 50 | | | |
| Rated output current [A _{AC}] | 7.2 | 8.7 | 11.6 | 14.5 |
| Maximum continuous output current [A _{AC}] | 8.0 | 9.6 | 12.7 | 16.0 |
| Rated output active power [W] | 5000 | 6000 | 8000 | 10000 |
| Maximum output active power [W] | 5500 | 6600 | 8800 | 11000 |
| Maximum output apparent power [VA] | 5500 | 6600 | 8800 | 11000 |
| Power factor range | 0.8 inductive(under-excited) to 0.8 capacitive(over-excited) | | | |

Tested according to:

EN 50549-1:2019/AC:2019