



Product Service

Compliance Document

No. D 114387 0046 Rev. 02

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PEOPLE'S REPUBLIC OF CHINA

Product: **Converter
(PV Inverter & Hybrid Inverter)**

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Test report no.: 64290223058703

Date, 2024-06-19

(Billy Qiu)

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Model(s):

PV Inverter models:

**SUN2000-12KTL-M5, SUN2000-15KTL-M5,
SUN2000-17KTL-M5, SUN2000-20KTL-M5,
SUN2000-25KTL-M5**

Hybrid Inverter models:

**SUN2000-12K-MB0, SUN2000-15K-MB0,
SUN2000-17K-MB0, SUN2000-20K-MB0,
SUN2000-25K-MB0, SUN5000-17K-MB0,
SUN5000-25K-MB0**

Parameters:

| Model | SUN2000-12KTL-M5 | SUN2000-15KTL-M5 | SUN2000-17KTL-M5 | SUN2000-20KTL-M5 | SUN2000-25KTL-M5 |
|--|--|------------------|------------------|------------------|------------------|
| PV terminal parameters | | | | | |
| Maximum PV voltage [V _{DC}] | 1100 | | | | |
| Rated voltage [V _{DC}] | 600 | | | | |
| MPPT voltage range [V _{DC}] | 200 - 1000 | | | | |
| MPPT voltage range (full load) [V _{DC}] | 370 - 800 | 410 - 800 | 440 - 800 | 480 - 800 | 530 - 800 |
| Maximum input current [A _{DC}] | 30/30 | | | | |
| Isc PV [A _{DC}] | 40/40 | | | | |
| MPPT tracker number | 2 | | | | |
| Maximum input power [W] | 18000 | 22500 | 25500 | 30000 | 37500 |
| Grid output terminal parameters | | | | | |
| Rated output voltage [V _{AC}] | 3P+N+PE, 230/400 | | | | |
| Rated output frequency [Hz] | 50 | | | | |
| Rated output current [A _{AC}] | 17.3 | 21.7 | 24.5 | 28.9 | 36.1 |
| Maximum continuous output current [A _{AC}] | 20.2 | 25.2 | 28.6 | 33.6 | 42.0 |
| Rated output active power [W] | 12000 | 15000 | 17000 | 20000 | 25000 |
| Maximum output active power [W] | 13200 | 16500 | 18700 | 22000 | 27500 |
| Maximum output apparent power [VA] | 13200 | 16500 | 18700 | 22000 | 27500 |
| Power factor range | 0.8 inductive(under-excited) to 0.8 capacitive(over-excited) | | | | |

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| Model | SUN2000 -12K-MB0 | SUN2000 -15K-MB0 | SUN2000 -17K-MB0 | SUN2000 -20K-MB0 | SUN2000 -25K-MB0 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| PV terminal parameters | | | | | |
| Maximum PV voltage [V _{DC}] | 1100 | | | | |
| Rated voltage [V _{DC}] | 600 | | | | |
| MPPT voltage range [V _{DC}] | 200 - 1000 | | | | |
| MPPT voltage range (full load) [V _{DC}] | 370 - 800 | 410 - 800 | 440 - 800 | 480 - 800 | 530 - 800 |
| Maximum input current [A _{DC}] | 30/30 | | | | |
| Isc PV [A _{DC}] | 40/40 | | | | |
| MPPT tracker number | 2 | | | | |
| Maximum input power [W] | 18000 | 22500 | 25500 | 30000 | 37500 |
| Battery input/output parameters | | | | | |
| Battery type | Lithium-ion | | | | |
| Maximum voltage [V _{DC}] | 980 | | | | |
| Battery rated voltage [V _{DC}] | 600 | | | | |
| Battery voltage range [V _{DC}] | 600 - 980 | | | | |
| Maximum charge power [W] | 25000 | 25000 | 25000 | 25000 | 25000 |
| Maximum discharge power [W] | 13200 | 16500 | 18700 | 22000 | 25000 |
| Maximum charge current [A _{DC}] | 26.25/26.25 | | | | |
| Maximum discharge current [A _{DC}] | 26.25/26.25 | | | | |
| Maximum charge power from grid to battery [W] | 13200 | 15000 | 15000 | 15000 | 15000 |
| 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}] | 19.1 | 21.7 | 21.7 | 21.7 | 21.7 |
| Maximum continuous input current [A _{AC}] | 19.1 | 21.7 | 21.7 | 21.7 | 21.7 |
| Maximum continuous input power from grid to battery [W] | 13200 | 15000 | 15000 | 15000 | 15000 |
| Maximum continuous input active power [W] | 13200 | 15000 | 15000 | 15000 | 15000 |
| Maximum continuous input apparent power [VA] | 13200 | 15000 | 15000 | 15000 | 15000 |
| Grid output terminal parameters | | | | | |
| Rated output voltage [V _{AC}] | 3P+N+PE, 230/400 | | | | |
| Rated output frequency [Hz] | 50 | | | | |
| Rated output current [A _{AC}] | 17.3 | 21.7 | 24.5 | 28.9 | 36.1 |
| Maximum continuous output current [A _{AC}] | 20.2 | 25.2 | 28.6 | 33.6 | 42.0 |

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| | | | | | |
|------------------------------------|--|-------|-------|-------|-------|
| Rated output active power [W] | 12000 | 15000 | 17000 | 20000 | 25000 |
| Maximum output active power [W] | 13200 | 16500 | 18700 | 22000 | 27500 |
| Maximum output apparent power [VA] | 13200 | 16500 | 18700 | 22000 | 27500 |
| Power factor range | 0.8 inductive(under-excited) to 0.8 capacitive(over-excited) | | | | |

| Model | SUN5000-17K-MB0 | SUN5000-25K-MB0 |
|--|------------------|-----------------|
| PV terminal parameters | | |
| Maximum PV voltage [V _{DC}] | 1100 | |
| Rated voltage [V _{DC}] | 600 | |
| MPPT voltage range [V _{DC}] | 200 - 1000 | |
| MPPT voltage range (full load) [V _{DC}] | 440 - 800 | 530 - 800 |
| Maximum input current [A _{DC}] | 30/30 | |
| Isc PV [A _{DC}] | 40/40 | |
| MPPT tracker number | 2 | |
| Maximum input power [W] | 25500 | 37500 |
| Battery input/output parameters | | |
| Battery type | Lithium-ion | |
| Maximum voltage [V _{DC}] | 980 | |
| Battery rated voltage [V _{DC}] | 600 | |
| Battery voltage range [V _{DC}] | 600 - 980 | |
| Maximum charge power [W] | 25000 | 25000 |
| Maximum discharge power [W] | 18700 | 25000 |
| Maximum charge current [A _{DC}] | 26.25/26.25 | |
| Maximum discharge current [A _{DC}] | 26.25/26.25 | |
| Maximum charge power from grid to battery [W] | 15000 | |
| Grid terminal input 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}] | 21.7 | |
| Maximum continuous input current [A _{AC}] | 21.7 | |
| Maximum continuous input power from grid to battery [W] | 15000 | |
| Maximum continuous input active power [W] | 15000 | |
| Maximum continuous input apparent power [VA] | 15000 | |
| Grid terminal output parameters | | |
| Rated output voltage [V _{AC}] | 3P+N+PE, 230/400 | |
| Rated output frequency [Hz] | 50 | |
| Rated output current [A _{AC}] | 24.5 | 36.1 |
| Maximum continuous output current [A _{AC}] | 28.6 | 42.0 |



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| | | |
|------------------------------------|---|-------|
| Rated output active power [W] | 17000 | 25000 |
| Maximum output active power [W] | 18700 | 27500 |
| Maximum output apparent power [VA] | 18700 | 27500 |
| Power factor range | 0.8 inductive(under-excited) to 0.8 capacitive(over-excited) | |

**Tested
according to:**

EN 50549-1:2019/AC:2019