



A P P R O V A L S ®

## Certificate of Suitability

**Certificate No.:** SAA212281

**Certificate Holder:** Shenzhen Kstar New Energy Company Limited  
The 9th Floor, R&D Building, Kstar Industrial Park,  
Guangming Hi-tech Industrial Zone,  
518107 Shenzhen,  
Guangdong Province,  
P.R. China

**Regulatory Definition:** Non-Prescribed  
**Product Description:** Hybrid Inverter  
**Trade Name/s:** Kstar  
**Model No.:** BluE-S 5000D  
**Rating/Marking/s:** PV Input ratings:  
Vmax PV: 580Vdc  
MPPT Voltage: 120-550Vdc  
Current: 13A/13A  
Isc PV: 16A/16A

**Battery:**  
Battery type: Lithium or lead-acid batteries  
Voltage: 48Vdc  
Rated current: 100A (Charge); 100A (Discharge)

**Grid Input:**  
230Vac 50Hz 31A, 0.8 to 0.8 p.f.

**Grid Output:**  
230Vac 50Hz, 0.8 to 0.8 p.f.  
Rated apparent power: 4600VA  
Max output power: 5000W  
Rated output current: 22A

*R. A. Hill*

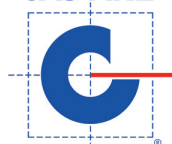
For and on Behalf of  
SAA Approvals Pty Ltd

This certificate is issued by SAA Approvals Pty Ltd in accordance with the SAA Approvals Electrical Product Safety Certification Scheme accredited by JAS-ANZ under AS/NZS ISO/IEC 17065 and RECS accreditation under the Queensland Government legislative requirements. SAA certifies the product nominated in this certificate complies with standard/s listed above in accordance with the schemes herein.

For SAA Contact Details and to verify this Certificate go to:

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Back-up terminal:  
230Vac 50Hz 20A 4600VA

Protective Class: I  
Over Voltage Category: II (DC), III (AC)  
Topology: Transformerless (PV); HF (Battery)  
Ingress Protection: IP65  
Operating Temperature Range: -25 to +60°C  
Firmware Version: V1.0.0  
Software Version: V1.0.0

**Standard/s:** IEC 62109-1 Ed 1.0  
IEC 62109-2 Ed 1.0  
AS/NZS 4777.2:2020

**Condition/s:** Nil

**Approval Marks:** RCM (In accordance with AS/NZS 4417 and EESS requirements)  
and  
SAA212281

**Initial Issue Date:** 29 October 2021  
**Expiry Date:** 29 October 2026

*R. A. Hill*

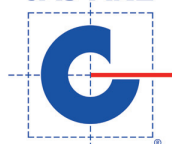
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## Certificate of Suitability

| Additional Models | Trade Name | Rating/Marking  |
|-------------------|------------|---|
| BluE-S 3680D      | Kstar      | <p>PV Input ratings:<br/>Vmax PV: 580Vdc<br/>MPPT Voltage: 120-550Vdc<br/>Current: 13A/13A<br/>Isc PV: 16A/16A</p> <p>Battery:<br/>Battery type: Lithium or lead-acid batteries<br/>Voltage: 48Vdc<br/>Rated current: 50A (Charge); 80A (Discharge)</p> <p>Grid Input:<br/>230Vac 50Hz 31A, 0.8 to 0.8 p.f.</p> <p>Grid Output:<br/>230Vac 50Hz, 0.8 to 0.8 p.f.<br/>Rated apparent power: 3680VA<br/>Rated output current: 16A</p> <p>Back-up terminal:<br/>230Vac 50Hz 16A 3680VA</p> <p>Protective Class: I<br/>Over Voltage Category: II (DC), III (AC)<br/>Topology: Transformerless (PV); HF (Battery)<br/>Ingress Protection: IP65<br/>Operating Temperature Range: -25 to +60°C<br/>Firmware Version: V1.0.0<br/>Software Version: V1.0.0</p> |

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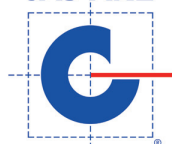
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## Certificate of Suitability

| Additional Models | Trade Name | Rating/Marking   |
|-------------------|------------|--|
| BluE-S 3680D-M1   | Kstar      | <p>PV Input ratings:<br/>Vmax PV: 580Vdc<br/>MPPT Voltage: 80-560Vdc<br/>Current: 15A/15A<br/>Isc PV: 18A/18A</p> <p>Battery:<br/>Battery type: Lithium or lead-acid batteries<br/>Voltage: 48Vdc<br/>Rated current: 50A (Charge); 80A (Discharge)</p> <p>Grid Input:<br/>230Vac 50Hz 31A, 0.8 to 0.8 p.f.</p> <p>Grid Output:<br/>230Vac 50Hz, 0.8 to 0.8 p.f.<br/>Rated apparent power: 3680VA<br/>Max output power: 3680W<br/>Rated output current: 16A</p> <p>Back-up terminal:<br/>230Vac 50Hz 16A 3680VA</p> <p>Protective Class: I<br/>Over Voltage Category: II (DC), III (AC)<br/>Topology: Transformerless (PV); HF (Battery)<br/>Ingress Protection: IP65<br/>Operating Temperature Range: -25 to +60°C<br/>Firmware Version: V1.0.0<br/>Software Version: V1.0.0</p> |

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## Certificate of Suitability

| Additional Models | Trade Name | Rating/Marking   |
|-------------------|------------|--|
| BluE-S 5000D-M1   | Kstar      | <p>PV Input ratings:<br/>Vmax PV: 580Vdc<br/>MPPT Voltage: 80-560Vdc<br/>Current: 15A/15A<br/>Isc PV: 18A/18A</p> <p>Battery:<br/>Battery type: Lithium or lead-acid batteries<br/>Voltage: 48Vdc<br/>Rated current: 100A (Charge); 100A (Discharge)</p> <p>Grid Input:<br/>230Vac 50Hz 31A, 0.8 to 0.8 p.f.</p> <p>Grid Output:<br/>230Vac 50Hz, 0.8 to 0.8 p.f.<br/>Rated apparent power: 4600VA<br/>Rated output current: 22A</p> <p>Back-up terminal:<br/>230Vac 50Hz 20A 4600VA</p> <p>Protective Class: I<br/>Over Voltage Category: II (DC), III (AC)<br/>Topology: Transformerless (PV); HF (Battery)<br/>Ingress Protection: IP65<br/>Operating Temperature Range: -25 to +60°C<br/>Firmware Version: V1.0.0<br/>Software Version: V1.0.0</p> |

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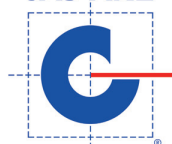
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