

## CERTIFICATE Of Conformity Low Voltage Directive 2014/35/EU

**Certificate No.** : AT1811C501841122-M2

**Report No.** : 1811C50184112201-M1

**Applicant** : Shenzhen SOFARSOLAR Co., Ltd.

**Address** : 11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, China.

**Product Name** : Hybrid Inverter

**Date** : 2025-08-25

**Trade Mark** : 

**Model No.** : HYD-29.9K-T1-A, HYD-30K-T1, HYD-40K-T1, HYD-49.9K-T1-A, HYD-50K-T1, HYD-60K-T1, HYD-30K-T1-LV

**Rating** : See attachment of rating

**Test Standards** : IEC 62109-1:2010, IEC 62109-2:2011, EN 62109-1:2010, EN 62109-2:2011

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. The certificate does not imply assessment of the series-production of the product. The applicant of the certificate is authorized to use this certificate in connection with EU declaration of conformity specified in Article 15 and Annex IV of the Directive. The certificate AT1811C501841122-M2 supersedes the certificate AT1811C501841122-M1 which is withdrawn.

Certified by



Jeff Zhu



The CE Marking may only be used if all relevant and effective EU Directives are complied with



Shenzhen Anbotek Compliance Laboratory Limited  
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Registration No.: AT1811C501841122-M2

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### Attachment of rating

**Rating** : **HYD-29.9K-T1-A:**

**PV Input**  
Max. Input Voltage: 1000 Vd.c.  
MPPT Voltage Range: 160-950 Vd.c.  
Max. Input Current: 40/40/40/40 A  
Max. Isc: 50/50/50/50 A

**Battery**  
Voltage Range: 600~1000Vd.c.  
Max. Charging Current: 100A  
Max. Discharging Current: 47.8A  
Battery Type: Lithium-ion

**AC Input(Grid)**  
Rated Input Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Input Frequency: 50/60 Hz  
Max. Input Current: 100A

**AC Output(Backup)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 29.9kW  
Max. Apparent Power: 29.9kW  
Max. Output Current: 45.4/43.2/41.6A

**AC Output(Generator)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 29.9kW  
Max. Apparent Power: 29.9kW  
Max. Output Current: 45.4/43.2/41.6A

**AC Output(Grid)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 29.9kW  
Max. Apparent Power: 29.9kW  
Max. Output Current: 45.4/43.2/41.6A  
Power Factor Range: 0.8 leading-0.8 lagging  
Inverter Topology: Non-Isolation  
Protective Class: Class I  
IP Rating: IP66  
Overvoltage Category: AC III, DC II

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### Attachment of rating

**Rating** : **HYD-30K-T1:**

**PV Input**  
Max. Input Voltage: 1000 Vd.c.  
MPPT Voltage Range: 160-950 Vd.c.  
Max. Input Current: 40/40/40/40 A  
Max. Isc: 50/50/50/50 A

**Battery**  
Voltage Range: 600~1000Vd.c.  
Max. Charging Current: 100A  
Max. Discharging Current: 48A  
Battery Type: Lithium-ion

**AC Input(Grid)**  
Rated Input Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Input Frequency: 50/60 Hz  
Max. Input Current: 100A

**AC Output(Backup)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 30kW  
Max. Apparent Power: 33kW  
Max. Output Current: 50.1/47.6/45.9A

**AC Output(Generator)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 30kW  
Max. Apparent Power: 33kW  
Max. Output Current: 50.1/47.6/45.9A

**AC Output(Grid)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 30kW  
Max. Apparent Power: 33kW  
Max. Output Current: 50.1/47.6/45.9A  
Power Factor Range: 0.8 leading-0.8 lagging  
Inverter Topology: Non-Isolation  
Protective Class: Class I  
IP Rating: IP66  
Overvoltage Category: AC III, DC II

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### Attachment of rating

**Rating** : **HYD-40K-T1:**

**PV Input**  
Max. Input Voltage: 1000 Vd.c.  
MPPT Voltage Range: 160-950 Vd.c.  
Max. Input Current: 40/40/40/40 A  
Max. Isc: 50/50/50/50 A

**Battery**  
Voltage Range: 600~1000Vd.c.  
Max. Charging Current: 100A  
Max. Discharging Current: 64A  
Battery Type: Lithium-ion

**AC Input(Grid)**  
Rated Input Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Input Frequency: 50/60 Hz  
Max. Input Current: 100A

**AC Output(Backup)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 40kW  
Max. Apparent Power: 44kW  
Max. Output Current: 66.9/63.5/61.2A

**AC Output(Generator)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 40kW  
Max. Apparent Power: 44kW  
Max. Output Current: 66.9/63.5/61.2A

**AC Output(Grid)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 40kW  
Max. Apparent Power: 44kW  
Max. Output Current: 66.9/63.5/61.2A  
Power Factor Range: 0.8 leading-0.8 lagging  
Inverter Topology: Non-Isolation  
Protective Class: Class I  
IP Rating: IP66  
Overvoltage Category: AC III, DC II

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**Rating** : **HYD-49.9K-T1-A:**

**PV Input**  
Max. Input Voltage: 1000 Vd.c.  
MPPT Voltage Range: 160-950 Vd.c.  
Max. Input Current: 40/40/40/40 A  
Max. Isc: 50/50/50/50 A

**Battery**  
Voltage Range: 600~1000Vd.c.  
Max. Charging Current: 100A  
Max. Discharging Current: 79.8A  
Battery Type: Lithium-ion

**AC Input(Grid)**  
Rated Input Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Input Frequency: 50/60 Hz  
Max. Input Current: 100A

**AC Output(Backup)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 49.9kW  
Max. Apparent Power: 49.9kW  
Max. Output Current: 75.8/72.0/69.4A

**AC Output(Generator)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 49.9kW  
Max. Apparent Power: 49.9kW  
Max. Output Current: 75.8/72.0/69.4A

**AC Output(Grid)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 49.9kW  
Max. Apparent Power: 49.9kW  
Max. Output Current: 75.8/72.0/69.4A  
Power Factor Range: 0.8 leading-0.8 lagging  
Inverter Topology: Non-Isolation  
Protective Class: Class I  
IP Rating: IP66  
Overvoltage Category: AC III, DC II

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### Attachment of rating

**Rating** : **HYD-50K-T1:**

**PV Input**  
Max. Input Voltage: 1000 Vd.c.  
MPPT Voltage Range: 160-950 Vd.c.  
Max. Input Current: 40/40/40/40 A  
Max. Isc: 50/50/50/50 A

**Battery**  
Voltage Range: 600~1000Vd.c.  
Max. Charging Current: 100A  
Max. Discharging Current: 80A  
Battery Type: Lithium-ion

**AC Input(Grid)**  
Rated Input Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Input Frequency: 50/60 Hz  
Max. Input Current: 100A

**AC Output(Backup)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 50kW  
Max. Apparent Power: 55kW  
Max. Output Current: 83.6/79.4/76.5A

**AC Output(Generator)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 50kW  
Max. Apparent Power: 55kW  
Max. Output Current: 83.6/79.4/76.5A

**AC Output(Grid)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 50kW  
Max. Apparent Power: 55kW  
Max. Output Current: 83.6/79.4/76.5A  
Power Factor Range: 0.8 leading-0.8 lagging  
Inverter Topology: Non-Isolation  
Protective Class: Class I  
IP Rating: IP66  
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### Attachment of rating

**Rating** : **HYD-60K-T1:**

**PV Input**  
Max. Input Voltage: 1000 Vd.c.  
MPPT Voltage Range: 160-950 Vd.c.  
Max. Input Current: 40/40/40/40 A  
Max. Isc: 50/50/50/50 A

**Battery**  
Voltage Range: 600~1000Vd.c.  
Max. Charging Current: 100A  
Max. Discharging Current: 100A  
Battery Type: Lithium-ion

**AC Input(Grid)**  
Rated Input Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Input Frequency: 50/60 Hz  
Max. Input Current: 100A

**AC Output(Backup)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 60kW  
Max. Apparent Power: 66kW  
Max. Output Current: 100/95.3/91.8A

**AC Output(Generator)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 60kW  
Max. Apparent Power: 66kW  
Max. Output Current: 100/95.3/91.8A

**AC Output(Grid)**  
Rated Output Voltage: 3(N)~+⊕,380/400/415 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 60kW  
Max. Apparent Power: 66kW  
Max. Output Current: 100/95.3/91.8A  
Power Factor Range: 0.8 leading-0.8 lagging  
Inverter Topology: Non-Isolation  
Protective Class: Class I  
IP Rating: IP66  
Overvoltage Category: AC III, DC II

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### Attachment of rating

**Rating** : **HYD-30K-T1-LV:**

**PV Input**  
Max. Input Voltage: 1000 Vd.c.  
MPPT Voltage Range: 160-950 Vd.c.  
Max. Input Current: 40/40/40/40 A  
Max.Isc: 50/50/50/50 A

**Battery**  
Voltage Range: 600~1000Vd.c.  
Max. Charging Current: 48A  
Max. Discharging Current: 48A  
Battery Type: Lithium-ion

**AC Input(Grid)**  
Rated Input Voltage: 3(N)~+⊕,190/210/220 Va.c.  
Rated Input Frequency: 50/60 Hz  
Max. Input Current: 100A

**AC Output(Backup)**  
Rated Output Voltage: 3(N)~+⊕,190/210/220 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 30kW  
Max. Apparent Power: 33kW  
Max. Output Current: 100/91.7/86.6A

**AC Output(Generator)**  
Rated Output Voltage: 3(N)~+⊕,190/210/220 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 30kW  
Max. Apparent Power: 33kW  
Max. Output Current: 100/91.7/86.6A

**AC Output(Grid)**  
Rated Output Voltage: 3(N)~+⊕,190/210/220 Va.c.  
Rated Output Frequency: 50/60 Hz  
Rated Output Power: 30kW  
Max. Apparent Power: 33kW  
Max. Output Current: 100/91.7/86.6A  
Power Factor Range: 0.8 leading-0.8 lagging  
Inverter Topology: Non-Isolation  
Protective Class: Class I  
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