

CERTIFICATE

of conformity with the following European Directives

Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

Hiconics Eco-energy Drive Technology Co., Ltd.

No.3 Boxing 2nd Road, Beijing Economic and Technological
Development Zone, Daxing District, 100176, Beijing, China

comply to the essential requirements of the above mentioned European Directive and the following standards,
taking into account the German national deviations:

Product(s):	Rechargeable Li-ion Battery System
Model type(s):	HEC2-BHP50r2, HEC2-BHP100r2, HEC2-BHP150r2, HEC2-BHP200r2, HEC2-BHP200r2-A, HEC2-BHP300r2, HEC2-BHP400r2

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an
assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the
TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-
Declaration of Conformity.

Certification program:	P31-VA-01 Rev. 02 / 04.20
Certification fundamental(s):	EN IEC 62040-1:2019, EN IEC 62040-1:2019/A11:2021
Registered no.:	44 799 24 406749 - 129
Report no.:	492013057.001
File no.:	PVP03094/24E-04



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2024-04-10

TÜV NORD CERT GmbH

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Please also pay attention to the information stated overleaf.

ANNEX

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to Certificate registration no. 44 799 24 406749 - 129

Description of product(s):

Model type(s):	HEC2-BHP50r2
Rated capacity:	50Ah
Nominal voltage:	102.4V
Watt-hour:	5120Wh
Recommended charge method:	Charging the battery system with 25A constant current until 112V, then constant voltage until charging current reduces to 0.05C
Maximum charge current:	25A (0.5C)
Maximum charge voltage:	116.8V
Charge temperature range:	From -20°C to 55°C
Recommended discharge method:	Discharging the battery system with 25A constant current to discharge cut-off voltage 92.8V
Maximum discharge current:	25A (0.5C)
Discharge cut-off voltage:	80V
Discharge temperature range:	From -20°C to 55°C
Nominal weight:	69±4kg
Nominal dimension:	800±20mm×530±30mm×160±20mm
Storage temperature range:	From -20°C to 55°C (3 months) From -20°C to 35°C (1 year)
IP rating/ Enclosure index:	IP65
Elevation [m]:	≤2000m



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Description of product(s):

Model type(s):	HEC2-BHP100r2
Rated capacity:	50Ah
Nominal voltage:	204.8V
Watt-hour:	10240Wh
Recommended charge method:	Charging the battery system with 25A constant current until 224V, then constant voltage until charging current reduces to 0.05C
Maximum charge current:	25A (0.5C)
Maximum charge voltage:	223.6V
Charge temperature range:	From -20°C to 55°C
Recommended discharge method:	Discharging the battery system with 25A constant current to discharge cut-off voltage 185.6V
Maximum discharge current:	25A (0.5C)
Discharge cut-off voltage:	160V
Discharge temperature range:	From -20°C to 55°C
Nominal weight:	124±6kg
Nominal dimension:	800±20mm×840±30mm×160±20mm
Storage temperature range:	From -20°C to 55°C (3 months) From -20°C to 35°C (1 year)
IP rating/ Enclosure index:	IP65
Elevation [m]:	≤2000m



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Description of product(s):

Model type(s):	HEC2-BHP150r2
Rated capacity:	50Ah
Nominal voltage:	307.2V
Watt-hour:	15360Wh
Recommended charge method:	Charging the battery system with 25A constant current until 336V, then constant voltage until charging current reduces to 0.05C
Maximum charge current:	25A (0.5C)
Maximum charge voltage:	350.4V
Charge temperature range:	From -20°C to 55°C
Recommended discharge method:	Discharging the battery system with 25A constant current to discharge cut-off voltage 278.4V
Maximum discharge current:	25A (0.5C)
Discharge cut-off voltage:	240V
Discharge temperature range:	From -20°C to 55°C
Nominal weight:	179±8kg
Nominal dimension:	800±20mm×1150±30mm×160±20mm
Storage temperature range:	From -20°C to 55°C (3 months) From -20°C to 35°C (1 year)
IP rating/ Enclosure index:	IP65
Elevation [m]:	≤2000m



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Description of product(s):

Model type(s):	HEC2-BHP200r2
Rated capacity:	50Ah
Nominal voltage:	409.6V
Watt-hour:	20480Wh
Recommended charge method:	Charging the battery system with 25A constant current until 448V, then constant voltage until charging current reduces to 0.05C
Maximum charge current:	25A (0.5C)
Maximum charge voltage:	467.2V
Charge temperature range:	From -20°C to 55°C
Recommended discharge method:	Discharging the battery system with 25A constant current to discharge cut-off voltage 371.2V
Maximum discharge current:	25A (0.5C)
Discharge cut-off voltage:	320V
Discharge temperature range:	From -20°C to 55°C
Nominal weight:	234±10kg
Nominal dimension:	800±20mm×1460±30mm×160±20mm
Storage temperature range:	From -20°C to 55°C (3 months) From -20°C to 35°C (1 year)
IP rating/ Enclosure index:	IP65
Elevation [m]:	≤2000m



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Description of product(s):

Model type(s):	HEC2-BHP200r2-A
Rated capacity:	100Ah
Nominal voltage:	204.8V
Watt-hour:	20480Wh
Recommended charge method:	Charging the battery system with 50A constant current until 224V, then constant voltage until charging current reduces to 0.05C
Maximum charge current:	50A (0.5C)
Maximum charge voltage:	233.6V
Charge temperature range:	From -20°C to 55°C
Recommended discharge method:	Discharging the battery system with 50A constant current to discharge cut-off voltage 185.6V
Maximum discharge current:	50A (0.5C)
Discharge cut-off voltage:	160V
Discharge temperature range:	From -20°C to 55°C
Nominal weight:	248±12kg
Nominal dimension:	1600±20mm×840±30mm×160±20mm
Storage temperature range:	From -20°C to 55°C (3 months) From -20°C to 35°C (1 year)
IP rating/ Enclosure index:	IP65
Elevation [m]:	≤2000m



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Description of product(s):

Model type(s):	HEC2-BHP300r2
Rated capacity:	100Ah
Nominal voltage:	307.2V
Watt-hour:	30720Wh
Recommended charge method:	Charging the battery system with 50A constant current until 336V, then constant voltage until charging current reduces to 0.05C
Maximum charge current:	50A (0.5C)
Maximum charge voltage:	350.4V
Charge temperature range:	From -20°C to 55°C
Recommended discharge method:	Discharging the battery system with 50A constant current to discharge cut-off voltage 278.4V
Maximum discharge current:	50A (0.5C)
Discharge cut-off voltage:	240V
Discharge temperature range:	From -20°C to 55°C
Nominal weight:	358±16kg
Nominal dimension:	1600±20mm×1150±30mm×160±20mm
Storage temperature range:	From -20°C to 55°C (3 months) From -20°C to 35°C (1 year)
IP rating/ Enclosure index:	IP65
Elevation [m]:	≤2000m



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Description of product(s):

Model type(s):	HEC2-BHP400r2
Rated capacity:	100Ah
Nominal voltage:	409.6V
Watt-hour:	40960Wh
Recommended charge method:	Charging the battery system with 50A constant current until 448V, then constant voltage until charging current reduces to 0.05C
Maximum charge current:	50A (0.5C)
Maximum charge voltage:	467.2V
Charge temperature range:	From -20°C to 55°C
Recommended discharge method:	Discharging the battery system with 50A constant current to discharge cut-off voltage 371.2V
Maximum discharge current:	50A (0.5C)
Discharge cut-off voltage:	320V
Discharge temperature range:	From -20°C to 55°C
Nominal weight:	468±20kg
Nominal dimension:	1600±20mm×1460±30mm×160±20mm
Storage temperature range:	From -20°C to 55°C (3 months) From -20°C to 35°C (1 year)
IP rating/ Enclosure index:	IP65
Elevation [m]:	≤2000m

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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