

CERTIFICATE

of conformity

This certifies that below described products of the applicant:

Anker Innovations Limited

Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,
Central and Western District, HONG KONG

comply to the essential requirements of the following standards:

Product(s): Rechargeable Li-ion Battery System

Model type(s): X1-B5-H, X1-B10-HC, X1-B15-HC, X1-B20-HC, X1-B25-HC, X1-B30-HC

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 document may use it in connection with the related test report(s)

Certification program:	P31-VA-01 Rev. 02 / 04.20
Certification fundamental(s):	VDE-AR-E 2510-50:2017-05
Registered no.:	44 799 24 406749 - 378
Report no.:	TRPVP12125/23E/01
File no.:	PVP12125/23E-01

A blue ink signature, likely of Hans-Ulrich, the representative of TÜV NORD CERT GmbH.

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Description of product(s):

Model type	X1-B5-H
Battery designation	IFpP51/161/120[(8S)2S]M/-20+40/90
DC-DC module	
Voltage range from PCS input ... :	350V - 550V
Nominal power from PCS input . :	3kW
Voltage range output to battery . :	43.2V - 57.6V
Battery	
Rated capacity	100Ah
Battery Nominal voltage..... :	51.2V
Watt-hour	5kWh
Recommended (rated) charge method	Charge at constant power 3kW until cell voltage reaches 3.45V, then charge at constant current 10A until cell voltage reaches 3.6V.
Maximum charge current	80A
Maximum charge voltage..... :	57.6V
Charge temperature range..... :	From -20°C to 55°C*
Recommended (rated) discharge method	3kW discharge to cell voltage reaches 2.7V.
Maximum discharge current..... :	80A



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Discharge cut-off voltage	43.2V
Discharge temperature range	From -20°C to 55°C
Nominal weight	(51±0.5)kg
Nominal dimension	(670±2)×(360±2)×(150±2)mm
Storage temperature range.....	-20°C ~ 45°C
IP rating/ Enclosure index	IP66
Elevation [m]	≤4000
*: When the temperature is below 0 degrees, the product will turn on the heating function.	

Model type	X1-B10-HC
Battery designation	IFpP51/161/120[[(8S)2S)2P]M/-20+40/90
DC-DC module	
Voltage range from PCS input ... :	350V - 550V
Nominal power from PCS input . :	6kW
Voltage range output to battery . :	43.2V - 57.6V
Battery	
Rated capacity	200Ah
Battery Nominal voltage.....	51.2V
Watt-hour	10kWh



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Recommended (rated) charge method	Charge at constant power 6kW until cell voltage reaches 3.45V, then charge at constant current 10A until cell voltage reaches 3.6V.
Maximum charge current	160A
Maximum charge voltage	57.6V
Charge temperature range	From -20°C to 55°C*
Recommended (rated) discharge method	6kW discharge to cell voltage reaches 2.7V.
Maximum discharge current	160A
Discharge cut-off voltage	43.2V
Discharge temperature range	From -20°C to 55°C
Nominal weight	(102±1)kg
Nominal dimension	(670±2)×(720±4)×(150±2)mm
Storage temperature range	-20°C ~ 45°C
IP rating/ Enclosure index	IP66
Elevation [m]	≤4000
*: When the temperature is below 0 degrees, the product will turn on the heating function.	

Model type	X1-B15-HC
Battery designation	IFpP51/161/120[[(8S)2S)3P]M/-20+40/90

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DC-DC module	
Voltage range from PCS input ... :	350V - 550V
Nominal power from PCS input . :	9kW
Voltage range output to battery . :	43.2V - 57.6V
Battery	
Rated capacity	300Ah
Battery Nominal voltage..... :	51.2V
Watt-hour	15kWh
Recommended (rated) charge method	Charge at constant power 9kW until cell voltage reaches 3.45V, then charge at constant current 10A until cell voltage reaches 3.6V.
Maximum charge current	240A
Maximum charge voltage..... :	57.6V
Charge temperature range..... :	From -20°C to 55°C*
Recommended (rated) discharge method	9kW discharge to cell voltage reaches 2.7V.
Maximum discharge current..... :	240A
Discharge cut-off voltage	43.2V
Discharge temperature range :	From -20°C to 55°C
Nominal weight	(153±1.5)kg



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Nominal dimension	(670±2)×(1080±6)×(150±2)mm
Storage temperature range.....	-20°C ~ 45°C
IP rating/ Enclosure index	IP66
Elevation [m]	≤4000
*: When the temperature is below 0 degrees, the product will turn on the heating function.	

Model type	X1-B20-HC
Battery designation	IFpP51/161/120[(8S)2S)4P]M/-20+40/90
DC-DC module	
Voltage range from PCS input ...	350V - 550V
Nominal power from PCS input ..	12kW
Voltage range output to battery ..	43.2V - 57.6V
Battery	
Rated capacity	400Ah
Battery Nominal voltage	51.2V
Watt-hour	20kWh
Recommended (rated) charge method	Charge at constant power 12kW until cell voltage reaches 3.45V, then charge at constant current 10A until cell voltage reaches 3.6V.
Maximum charge current	320A



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Maximum charge voltage.....:	57.6V
Charge temperature range.....:	From -20°C to 55°C*
Recommended (rated) discharge method	12kW discharge to cell voltage reaches 2.7V.
Maximum discharge current.....:	320A
Discharge cut-off voltage	43.2V
Discharge temperature range:	From -20°C to 55°C
Nominal weight	(204±2)kg
Nominal dimension	(670±2)×(1080±6)×(150±2)mm+(670±2)×(360±2)×(150±2)mm
Storage temperature range.....:	-20°C ~ 45°C
IP rating/ Enclosure index	IP66
Elevation [m]	≤4000
*: When the temperature is below 0 degrees, the product will turn on the heating function.	

Model type	X1-B25-HC
Battery designation	IFpP51/161/120[[(8S)2S)5P]M/-20+40/90
DC-DC module	
Voltage range from PCS input ...:	350V - 550V
Nominal power from PCS input ..:	15kW



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Voltage range output to battery .:	43.2V - 57.6V
Battery	
Rated capacity	500Ah
Battery Nominal voltage	51.2V
Watt-hour	25kWh
Recommended (rated) charge method	Charge at constant power 15kW until cell voltage reaches 3.45V, then charge at constant current 10A until cell voltage reaches 3.6V.
Maximum charge current	400A
Maximum charge voltage	57.6V
Charge temperature range	From -20°C to 55°C*
Recommended (rated) discharge method	15kW discharge to cell voltage reaches 2.7V.
Maximum discharge current	400A
Discharge cut-off voltage	43.2V
Discharge temperature range	From -20°C to 55°C
Nominal weight	(255±2.5)kg
Nominal dimension	(670±2)×(1080±6)×(150±2)mm+(670±2)×(720±4)×(150±2)mm
Storage temperature range	-20°C ~ 45°C
IP rating/ Enclosure index	IP66



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Elevation [m]	≤4000
*: When the temperature is below 0 degrees, the product will turn on the heating function.	

Model type	X1-B30-HC
Battery designation	IFpP51/161/120[((8S)2S)6P]M/-20+40/90
DC-DC module	
Voltage range from PCS input ...:	350V - 550V
Nominal power from PCS input .:	18kW
Voltage range output to battery .:	43.2V - 57.6V
Battery	
Rated capacity	600Ah
Battery Nominal voltage.....:	51.2V
Watt-hour	30kWh
Recommended (rated) charge method	Charge at constant power 18kW until cell voltage reaches 3.45V, then charge at constant current 10A until cell voltage reaches 3.6V.
Maximum charge current	480A
Maximum charge voltage.....:	57.6V
Charge temperature range.....:	From -20°C to 55°C*



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Recommended (rated) discharge method	18kW discharge to cell voltage reaches 2.7V.
Maximum discharge current.....	480A
Discharge cut-off voltage	43.2V
Discharge temperature range	From -20°C to 55°C
Nominal weight	(306±3)kg
Nominal dimension	(670±2)×(1080±6)×(150±2)mm+(670±2)×(1080±6)×(150±2)mm
Storage temperature range.....	-20°C ~ 45°C
IP rating/ Enclosure index	IP66
Elevation [m]	≤4000
*: When the temperature is below 0 degrees, the product will turn on the heating function.	

Remark:

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



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