



EU-Type Examination Certificate

with respect to the presumption of
Compliance of a product with the essential requirements of

RE DIRECTIVE 2014/53/EU

Certificate Number	CS34450
Certificate Holder	Wanbang Digital Energy Co., Ltd.
Address	No.39, Longhui Road, Wujin National Hi-Tech Industrial Development Zone, Changzhou, Jiangsu, China
Manufacturer	Wanbang Digital Energy Co., Ltd.
Address	No.39, Longhui Road, Wujin National Hi-Tech Industrial Development Zone, Changzhou, Jiangsu, China
Product Type/Description	Aurora AC charger
Trade Name	 Star Charge®
Model Number	DH-AC0070XG70, DH-AC0070XG71, DH-AC0110XG70, DH-AC0110XG71
Product Identification Element	DH-AC0070XG70, DH-AC0070XG71, DH-AC0110XG70, DH-AC0110XG71

Applied / Complied Harmonized Standards		Complied
RE Directive 2014/53/EU, Article 3(1)(a) ■ Safety	EN IEC 61851-1:2019	Y
RE Directive 2014/53/EU, Article 3(1)(a) ■ Health	EN 50665:2017, EN 62311:2008	Y
RE Directive 2014/53/EU, Article 3(1)(b) ■ EMC	EN 301 489-1 V2.2.3, EN 301 489-3 V2.1.1, EN 301 489-17 V3.2.4, Draft EN 301 489-52 V1.1.0 EN IEC 61851-21-2:2021	Y
RE Directive 2014/53/EU, Article 3(2) ■ Radio	EN 301 511 V12.5.1, EN 301 908-1 V13.1.1, EN 301 908-2 V13.1.1, EN 301 908-13 V13.1.1, EN 300 328 V2.2.2, EN 300 330 V2.1.1	Y

Authorized By: *Darren Shih*

Darren Shih, Senior Manager

Issue Date: November 15, 2021

Expiry Date: November 14, 2026

PS: This Certificate is Issued in Accordance with Annex III of the RE Directive 2014/53/EU and is only valid in Conjunction with the Following Annex I.

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**BUREAU
VERITAS**

Annex I of RED EU-TYPE Examination Certificate

Certificate Number: CS34450

Product Specifications	
Frequency Range	13.56MHz (NFC), 2402-2480 MHz (BT), 2412-2472 MHz (Wi-Fi) GSM 900: 880-915 MHz, Rx: 925-960 MHz, GSM 1800: Tx: 1710-1785 MHz, Rx: 1805-1880 MHz WCDMA Band I: Tx: 1920-1980 MHz, Rx: 2110-2170 MHz WCDMA Band VIII: Tx: 880-915 MHz, Rx: 925-960 MHz LTE Band 1: Tx: 1920-1980 MHz, Rx: 2110-2170 MHz LTE Band 3: Tx: 1710-1785MHz, Rx: 1805-1880MHz, LTE Band 7: Tx: 2500-2570MHz, Rx: 2620-2690MHz LTE Band 8: Tx: 880-915MHz, Rx: 925-960MHz, LTE Band 20: Tx: 832-862MHz, Rx: 791-821MHz
RF Output Power (EIRP)	2.76 dBuA/m@3m (NFC), 8.74 dBm (BDR), 8.76 dBm (EDR) 2.4G Wi-Fi: 11b: 17.30dBm, 11g: 18.64 dBm, 11n20: 17.82 dBm 33 dBm* (GSM 900), 30 dBm* (GSM 1800), 24 dBm* (WCDMA), 23 dBm* (LTE)
Type of Antenna	PCB Antenna (NFC), External Antenna (BT, Wi-Fi), Fixed Internal Antenna (GSM, WCDMA, LTE)
Modulation	ASK (NFC); BT: FHSS/GFSK, $\pi/4$ -DQPSK, 8DPSK 802.11b: DQPSK, DBPSK, CCK; 802.11g/n: OFDM/64-QAM, 16-QAM, QPSK, BPSK GSM: GMSK/8PSK, WCDMA: QPSK, LTE: QPSK/16QAM
Mode of Operation (Simplex / Duplex)	Duplex
Duty Cycle	-
Comments	*: Conducted power. - All the models in this CE RED NB Certificate are identical in circuitry and electrical for wireless part; the only differences are the appearance and model No. for marketing purpose.

Technical Documentation Identification

Test Report	
RE Directive 2014/53/EU, Article 3(1)(a) ■ Health & Safety	ABJB-ESH-P20112443-1A (Safety), ABJB-ESH-P20112443B-6 (Health)
RE Directive 2014/53/EU, Article 3(1)(b) ■ EMC	ABJB-ESH-P20112443B-3, ABJB-ESH-P20112443-1B-R1
RE Directive 2014/53/EU, Article 3(2) ■ Radio	ABJB-ESH-P20112443B-1, ABJB-ESH-P20112443B-2, ABJB-ESH-P20112443B-4, ABJB-ESH-P20112443B-5, ABJB-ESH-P20112443B-7
User Manual	<input checked="" type="checkbox"/>
Product Label	<input checked="" type="checkbox"/>
Block Diagram	<input checked="" type="checkbox"/>
Circuit Diagram	<input checked="" type="checkbox"/>
BOM	<input checked="" type="checkbox"/>
Declaration of Conformity	<input checked="" type="checkbox"/>
Risk Assessment	<input checked="" type="checkbox"/>
Operational description	<input checked="" type="checkbox"/>
PCB Layout	<input checked="" type="checkbox"/>
Package	<input checked="" type="checkbox"/>

Based on the evidence presented, our certificate in accordance with Annex III of Council Directive 2014/53/EU on Radio Equipment Directive and the mutual recognition of their conformity is that the apparatus identified above complies with the requirements of that Directive stated above.

Note: Compliance with the above Directive does not guarantee the right to use the above mentioned equipment in any EU member state. No configuration, other than described above, has been considered and is therefore not included in this certificate.

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Please check the validation of this certificate at [BV CPS Cert Validation Portal](#)