

Certificate No. R 50649455 Our Reference CN24GXDD 001 Appendix No. 1.0**Constructional Data Form (CDF) for Electrical Appliances**

Page 1 of 4

License holder : Simplo Technology Co., Ltd.  
No. 471, Sec. 2, Pa Teh Road, Hu Kou Hsiang, Hsin Chu Hsien, Taiwan.

Factory : 1. Simplo Technology (Chong Qing) Inc.  
No. 2 Zongbao Avenue, Shapingba District, Chongqing, P.R. China.  
2. SIMPLO TECHNOLOGY (VIETNAM) CO., LTD.  
Lot CNSG-07, Van Trung Industrial Park, Van Trung Commune, Viet Yen District, Bac Giang Province, Vietnam

Type of Appliance : Rechargeable Li-ion Battery

Type Designation : 20HK2 (DELL)

Rating : Voltage: 15.6 Vdc, 4102 mAh / 64 Wh

Protection Class : N/A

Supply connection : ☐ fixed power cord  
☐ permanent connection  
☐ appliance inlet  
☐ direct plug in  
☐ battery operated  
☒ other: connector

Please tick above box ☒ when applicable

Additional information :

The maximum charging voltage, maximum charging current and charging temperature information are shown in Table A below

Mass of equipment: less than 2kg

<b>Battery model</b>	20HK2		
<b>Manufacturer &amp; type of cell:</b>	Ningde Amperex Technology Ltd., (ATL), type: 664863C	Zhuhai Cosmx Battery Co., Ltd., (CosMX), type: CA664863U-Q2	Huizhou Highpower Technology Co., Ltd. (Highpower), type: 664863AFR
<b>Maximum charge voltage:</b>	18.04Vdc	18.04Vdc	18.04Vdc
<b>Charging temperature range:</b>	maximum charge current	maximum charge current	maximum charge current
<b>0~15 °C</b>	1280mA	1408mA	1280mA

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2024-10-04

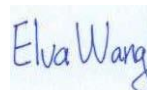
Bruce Tsai



Simplo Technology Co., Ltd.

2024-08-16

Elva Wang

SIMPLO TECHNOLOGY CO., LTD.  
SAFETY DEPARTMENT

Date Name

Signature

Date Name

Stamp &amp; Signature of licenseholder

Certificate No. R 50649455 Our Reference CN24GXDD 001 Appendix No. 1.0

## Constructional Data Form (CDF) for Electrical Appliances

Page 2 of 4

16~45 °C	7680mA	7680mA	7680mA
Supplementary information:	Tested with worse condition, max. continuous charge current: 7962mA		

Critical Components					
Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
Rechargeable Li-ion Cells (4 provided, 4S1P)	Ningde Amperex Technology Limited / ATL	664863C	DC 3.91V, 4155mAh	UL 1642 IEC 62133-2: 2017 IEC 62133-2: 2017/AMD1:2021	UL (MH27725) CB (NL-106966)
- Temperature limiter (on cell) (optional)	Bourns KK	NR85ABH	DC 12V, 25A Rated functioning temperature: 85°C	UL 60730-1 fifth Edition EN IEC 60730-2-9: 2019 +A1 +A2	UL, TUV (R 50281578)
	Interchangeable	Interchangeable	Rated functioning temperature: Min.85°C	UL 60730-1 fifth Edition EN IEC 60730-2-9: 2019 +A1 +A2	UL, TUV
Rechargeable Li-ion Cells (4 provided, 4S1P)	Zhuhai CosMX Battery Co., Ltd.	CA664863U-Q2	DC 3.92V, Typ: 4186mAh, 16.410Wh, Min:4145Ah, 16.249Wh	UL 1642 IEC 62133-2: 2017 IEC 62133-2: 2017/AMD1:2021	UL (MH49033) CB (JPTUV-158049)
- Temperature limiter (on cell)	Bourns KK	NX82ABB	DC 9V, 35A Rated functioning temperature: 82°C	UL 60730-1 fifth Edition EN IEC 60730-2-9: 2019 +A1 +A2	UL, TUV (R 50473052)
	Interchangeable	Interchangeable	Rated functioning temperature: Min.82°C	UL 60730-1 fifth Edition EN IEC 60730-	UL, TUV

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Certificate No. R 50649455 Our Reference CN24GXDD 001 Appendix No. 1.0

**Constructional Data Form (CDF) for Electrical Appliances**

Page 3 of 4

				2-9: 2019 +A1 +A2	
Rechargeable Li-ion Cells (4 provided, 4S1P)	Huizhou Highpower Technology Co., Ltd.	664863AFR	DC 3.91V, 4155mAh	UL 1642 IEC 62133-2: 2017 IEC 62133-2: 2017/AMD1:2021	UL (MH46844) CB (NL-106130)
- Temperature limiter (on cell) (optional)	Bourns KK	NR85ABH	DC 12V, 25A Rated functioning temperature: 85°C	UL 60730-1 fifth Edition EN IEC 60730-2-9: 2019 +A1 +A2	UL, TUV (R 50281578)
	Interchangeable	Interchangeable	Rated functioning temperature: Min.85°C	UL 60730-1 fifth Edition EN IEC 60730-2-9: 2019 +A1 +A2	UL, TUV
Fuse (F1)	Polytronics Technology Corp.	CLM1612P1412C-AS or CLM1612P1412-AS (Note*)	12A, 36 Vdc.	EN 60127-1: 2006+A1+A2 EN 60127-4: 2005+A1+A2	TUV (TA 50428400)
	Dexerials Corp.	SFJ-1412W	12A, 36 Vdc.	EN 60127-3: 2015	TUV (J09650637)
MOSFETs (Q1, Q2)	UBIQ	QN3001M3E	30Vdc, 21A	--	--
	Sinopower	SM3420NHQAC-TRG	30Vdc, 21.6A	--	--
Protection IC (U1)	Renesas	RAJ240297C30DNP #HC0	--	--	--
Protection IC (U2)	UPI	uP8308PDN8-9K	Overvoltage Detection: 4.65V	--	--
	Nisshinbo	R5439K334JA-TR	Overvoltage Detection: 4.65V	--	--
	Interchangeable	Interchangeable	Overvoltage Detection: 4.65V	--	--

Supplementary information:

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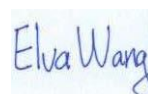
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**Constructional Data Form (CDF) for Electrical Appliances**

Page 4 of 4

\* = Fuse (F1) type CLM1612P1412C-AS is similar to type CLM1612P1412-AS except for model designation and the cover material, this difference doesn't affect the test results.

**Functional components and/or interchangeable components**

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
<b>For all models</b>					
Frame Material	QINGDAO HAIER NEW MATERIAL R & D CO LTD	NH-5008(+)	V-0, 80°C min	UL94 UL746C	UL (E230779)
	Kotec Corp	KFN-30S	V-0, 80°C min	UL94 UL746C	UL (E146413)
	Interchangeable	Interchangeable	V-0, 80°C min	UL94 UL746C	UL
Label	Chongqing Jingshangtong Electronic Technology Co., LTD	JST-073	Max. 100°C	UL 969	UL (MH63014)
	Suzhou Dachang Printing Tech Co Ltd	HY-31-116	Max. 80°C	UL 969	UL (MH45513)
	Interchangeable	Interchangeable	Max. 80°C	UL 969	UL
Mylar	Hunan Dobesty Optical Material Co Ltd	DB98KJ	VTM-0, 80°C	UL 94	UL (E524866)
	Interchangeable	Interchangeable	VTM-0, 80°C	UL 94	UL
PCB	Interchangeable	Interchangeable	V-0, 130°C min.	UL 796	UL
Resistors (R12)	Interchangeable	Interchangeable	2 mΩ, 1W	--	--
Thermistors (RT1)	Interchangeable	Interchangeable	NTC type, 10 kΩ at 25°C	UL 1434	UL
Connector Material	Interchangeable	Interchangeable	V-1 min., 105°C	UL 94	UL

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