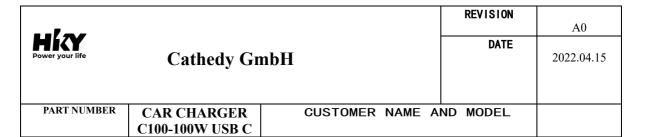
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PART NUMBER	CAR CHARGER	CUSTOMER NAME A	ND MODEL	
	C100-100W USB C			

SPECIFICATION FOR APPROVAL

SKU _	C100-	<u>-390-D</u>	OC-PD100W	
CUSTO	MER MO	DEL N	VO.:	
SAMPI	LE NO.:			
SERIES	S PRODUC	CTS:_		
PRODU	JCT NAM	E:	CAR CHARGER	
OUR M	IODEL NO).: _	C100-100W USB	C
Color:	Black		DATE: 2022-0	04-15
(CUSTON	ИER	APPROVED SIGN	ATURE
De	esigned by		Checked by	Approved by
Please	e to sign ba	ick afte	er you confirm! Rev. List	
Rev.	Date		Description	Design
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1. Scope

The specification shall be applied to the field of car charger

2. Quote Criterion

2.1 EMI STANDARD

EN 50498: 2010, BS EN 50498: 2010, FCC Part 15 Subpart B ANSI C63.4:2014, J55032(H29)

3 Input Characteristics

3.1 Rated Input Voltage

It is normal for 12Vdc to 24Vdc input DC voltage.

3.2 Rated Input Current

It is normal for 12A Max input Current

4 Output Characteristics

4.1 Rated Output Voltage Current

Model	4.1 Output Voltage	4.1 Min Load	4.1 Output Current	4.1 Load Regulation	4.1 Line Regulation	4.1 Output Voltage Range	4.2 Rated Power	4.3 Ripple/Noise (p-p)	4.4.1 Over Current Protection
	5V	0A	3A	±5%	±1%	4.75V-5.25V	15W	100mV Max	4A Max
	9V	0A	3A	±5%	±1%	8.55V-9.45V	27W	100mV Max	4A Max
C100-100W USB C	12V	0A	3A	±5%	±1%	11.4V-12.6V	36W	100mV Max	4A Max
	15V	0A	3A	±5%	±1%	14.25V-15.75V	45W	100mV Max	4A Max
	20V	0A	5A	±5%	±1%	19.0V-21.0V	100W	100mV Max	6.5A Max

4.2 Rated Power

The rated power is 100Watts.continuously at all specified conditions. Note: the test shall be made under the following conditions, unless otherwise specified: Ambient Temperature 25°C, Relative Humidity 35~85%RH Air Pressure 86~106kPa

4.3 Output Ripple and Noise

DC Input 12V. 24V Output ripple voltage is less Measured methods:Performed by 20MHz bandwidth in

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oscilloscope. Applied 0.1uF ceramic capacitor and 10uF electrolytic capacitor across output connector terminals Measured at the end of DC cable.

4.4 Protection

4.4.1 Over Current Protection

Over current protection current output

(5V/3A) (9V/3A) (12V/3A) (15V/3A)4A Max

(20V/5A) 6.5A Max

After the over current is eliminated, it needs to be restarted (unplugged and reinserted) to resume normal operation.

4.4.2 Short Circuit Protection

When the output short circuit occurs, the input power of the product decreases without damage. When the short circuit is eliminated, it needs to be restarted (re-inserted after pulling out) to resume normal work.

4.4.3 Thermal protection

Output over load, the main components of temperature more than 125°C protection (shell temperature was 95°C) Circuit protection, the main components of the temperature dropped to 50°C below normal output

4.5 Temperature Rise

The input voltage of 12-24 Vdc is applied at 25° C, and the shell temperature is less than 77° C at the maximum output load.

5 Environmental Requirement

5.1 Operating Temperature

-10°C TO 40°C Full load, Normal operation.,.

5.2 Storage Temperature

-25°C TO +70°C With package/

5.3 Operating Humidity

5%(0°C)~90%(40°C),RH,72Hrs,Full load, Normal operating.

5.4 Storage Humidity

5% ~ 95% RH. Non-condensing

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6 Mechanical Requirement

6.1 **Drop Test**

From 100cm height to the most likely to cause adverse results to the horizontal position of the surface drop test bed three times, the adapter in addition to surface scratches, it should be no dysfunction can cause the adapter and other potentially the harm. (Horizontal surface of the test rig shall be composed of at least 13mm thick hardwood installed in two layers of plywood, each layer of plywood thickness 19-20mm, and then placed on a cement base or equivalent on the ground inelastic)

6.2 Salty Fog Test for Metal Part

Experiment condition, Salty water thickness: 5%, Equipment Temperature: $35 \sim 40$ °C ,put the adapter(unpacking)in the test equipment for 24h, after 24h recovery at 25 °C checking the appearance, the metal parts have no erode and rust.

6.3 Plug and pull experiment

Plug and connector after normal plug 10 times, plug each insert strength is not more than 30N, pull out in 10N to 50N after between continuous pull plug 3000 times Appearance is allowed to have mild damage, but conducting performance is good

7 Mechanical Characteristics

7.1 Appearance

Visual inspection the case have no visual abnormality, no obvious nick, burr and other mechanical damage, outer metal have no rust. Use limit sample to check for any failures.

7.2 Case/Resin Materials

Flame resistance applies to UL94-V1

7.3 Vibration test

The amplitude is 25.4mm, the frequency is 4.5Hz, the speed is 270 revolutions per 53 minutes, and the vibration frequency is 14200 times. When the vibration is half done, rotate the goods horizontally by 90 ° or 180 ° and continue to vibrate. After the test, there are no abnormalities

8 Environmental Performances

8.1 Operating at the Lower temperature

At $-10\pm2^{\circ}$ C, with the rated voltage 12-24Vdc charged to the primary and unloaded and full load on the secondary, no abnormality in electric and mechanical characteristic, after 2 hours recovery at the room temperature.

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8.2 Operating at the High Temperature

At 40 ± 2 °C, with the rated voltage12-24Vdc charged to the primary and unloaded and full load on the secondary. No abnormality in electric and mechanical characteristic after 2 hours recovery at the room temperature.

8.3 Storage at the Lower Temperature

At $-25\pm2^{\circ}$ C, test of non-operated, No abnormality in electric and mechanical characteristic after 2hours recovery at the room temperature.

8.4 Storage at the Higher Temperature

At 70±2°C, test of non-operated, No abnormality in electric and mechanical characteristic after 2hours recovery at the room temperature.

8.5 Storage at High Temperature and High Humidity

At $40\pm2^{\circ}$ C,90~95%RH, test of operating 48hours,no abnormality in electric and mechanical characteristic, after 4hours recovery at the room temperature.

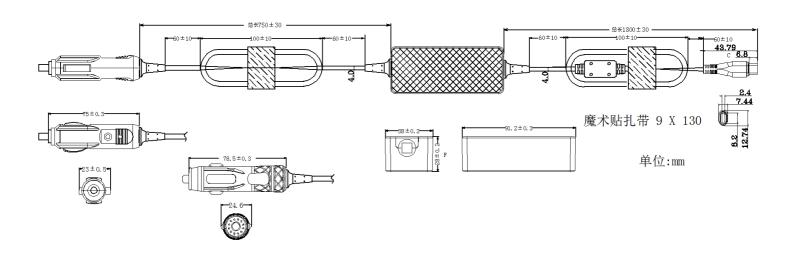
8.6 Storage at low Temperature and Low Humidity

At -10°C \pm 2°C,10%~40%RH, test of operating 48hours,no abnormality in electric and mechanical characteristic, after 4hours recovery at the room temperature.

9 Photograph of the Product

11.1 Enclosure:

The power supply size: 91.2x38x28mm; : 91.2x38x28mm;



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