TEST REPORT
UL2089

Report Number.....:	TMC220624107-S
Date of issue.....:	July 05, 2022
Total number of pages.....	7 pages
Name of Testing Laboratory preparing the Report.....:	TMC Testing Services (Shenzhen) Co., Ltd.
Applicant's name.....:	Shenzhen Wosibao Technology Co.,Ltd
Address.....:	C-11-LMN, Electron Techno Bldg No. 2070 Shennan Rd,Huaqiang North St,Futian Dist Shenzhen, Guangdong CHINA
Test item description.....:	Vehicle mounted one driven three charger
Trade Mark.....:	HiGoing, CHGeek, TRONGER
Manufacturer.....:	Shenzhen newtowe Techonogy Co.,LTD
Address.....:	4th Floor,2#YueMing Street,GuanTian Community,ShiYan Street,BaoAn ShenZhen.
Model/Type reference.....:	CC1009, TR-30, TR-30P, CC1010, CC1011
Ratings.....:	Input: 12-24V⎓ USB Output: 5V⎓ 8.5A QC3.0 Output: 3.6-6.5V⎓ 3A, 6.5-9V⎓ 2A, 9-12V⎓ 1.5A(Max.18W) Power: Max. 120W
Tested date.....:	June 24, 2022 - July 05, 2022

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

☐	**Testing Laboratory:**	TMC Testing Services (Shenzhen) Co., Ltd.
Testing location/ address.....:		1/F, Block A, Xinshidai Gongrong Industrial Park, No. 2, Shihuan Road, Shilong Community, Shiyan Street, Baoan District, Shenzhen, China
Tested by (name, function, signature).....:	Bart Deng	Bert Deng
Reviewed by (name, function, signature)... :	Seven Liu	Seven Liu

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UL2089 Test Record

No.	Test items	Test Method	Requirement/Limit	Measurements	Results
1	Maximum Output Voltage Test	Cl.22.1	The maximum output voltage under any load condition (including no load) between any two output terminations of a unit shall not be more than the peak voltages specified in 15.2.2(The maximum voltages which may be accessible in accordance): A) 42.4 volts peak for sinusoidal or nonsinusoidal ac; B) 60 volts for continuous dc; C) 24.8 volts peak for dc interrupted at a rate of 200 Hz or less with approximately 50 percent duty cycle; and D) combinations of ac and dc	Complied	P
		Cl.22.2	If a unit has more than one pair of output terminations, the output voltage mentioned in 22.1 is to be measured with any combination of interconnections of the output terminations	Complied	P
2	Power Input Test	Cl.23.1	The current or watts input to a vehicle battery adapter, when connected to a supply adjusted to the rated input voltage and supplying rated output into a load as described in Table 21.2, shall not be more than 110 percent of the rated value	Complied	P
3	Temperature Test	Cl.24.1	The unit shall be mounted as in intended service and connected as described in 23.1. With the unit operating at its maximum marked duty cycle, the unit shall not reach a temperature at any point high enough to cause a risk of fire, to damage any material used	Complied	P
4	Dielectric Voltage-With stand Test	Cl.25.1.1	While still in a heated condition, a unit shall withstand for 1 minute without breakdown the application of a 60-hertz essentially sinusoidal potential of：500 volts between a circuit operating at 60 volts dc or less or 50 volts ac rms (70 volts peak) or less and dead metal parts	Complied	P

		Cl.25.1.2	To determine whether a unit complies with the requirements in 25.1, the unit is to be tested using a 500 volt-ampere or larger capacity transformer, the output voltage of which can be varied. The applied potential is to be increased from zero until the required test level is reached, and is to be held at that level for 1 minute. The increase in applied potential is to be at substantially uniform rate as rapid as is consistent with correct indication of its value by a voltmeter	Complied	P
5	Reverse polarity test	Cl.26.2.1	For a device intended for charging batteries and provided with nonpolarized output connections, the external output leads are to be connected in reverse polarity to a fully charged battery intended for the application. The unit is then to be connected to its maximum test voltage, and operated until the ultimate condition is observed, or 4 hours if cycling of an automatically reset protector occurs	Complied	P
6	Resistance to Crushing Test	Cl.27.1	One sample of the cigarette lighter connector shall withstand for 1 minute a steady crushing force of 75 pounds (334 N). The cigarette lighter connector is to be tested between two parallel, flat, maple blocks, each not less than 1/2 inch (12.7 mm) thick. The crushing force is to be applied gradually in a direction normal to the mounting surface	Complied	P

Photo Documents:

Fig. 1

Fig. 2

Fig. 3

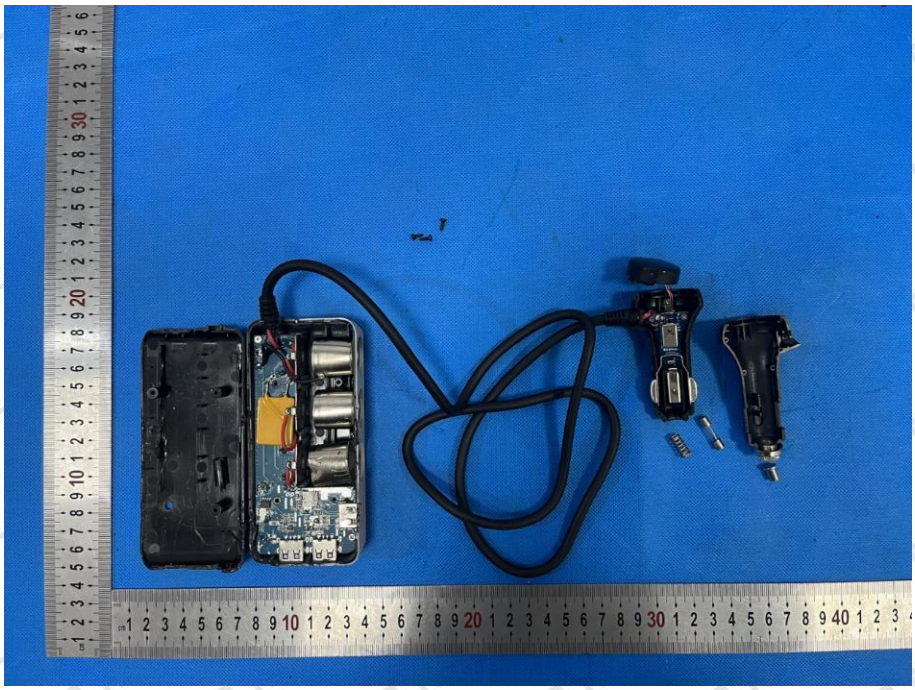

Fig. 4

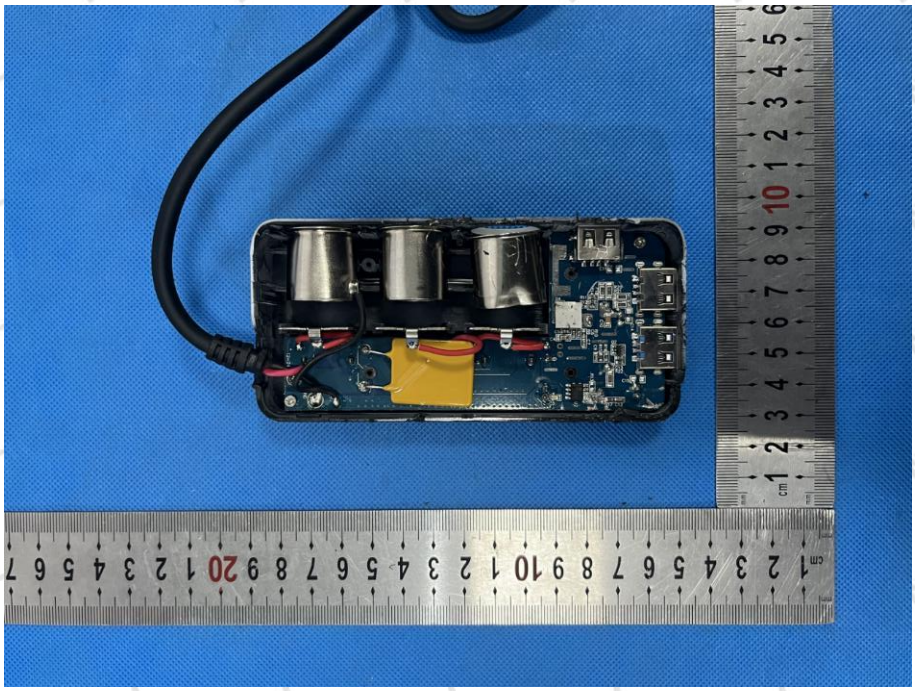

Fig. 5

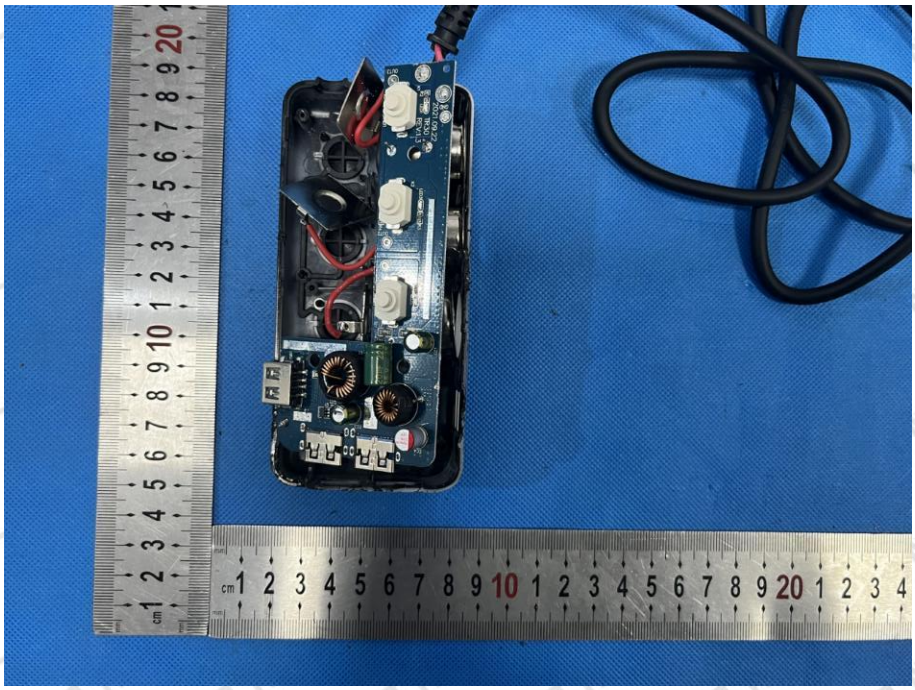

Fig. 6

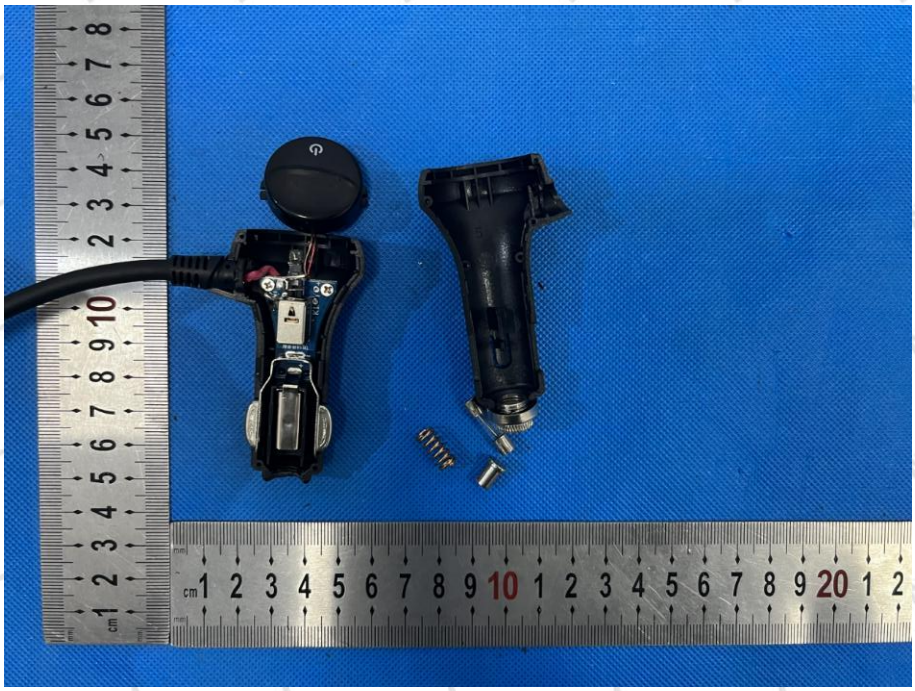

Fig. 7

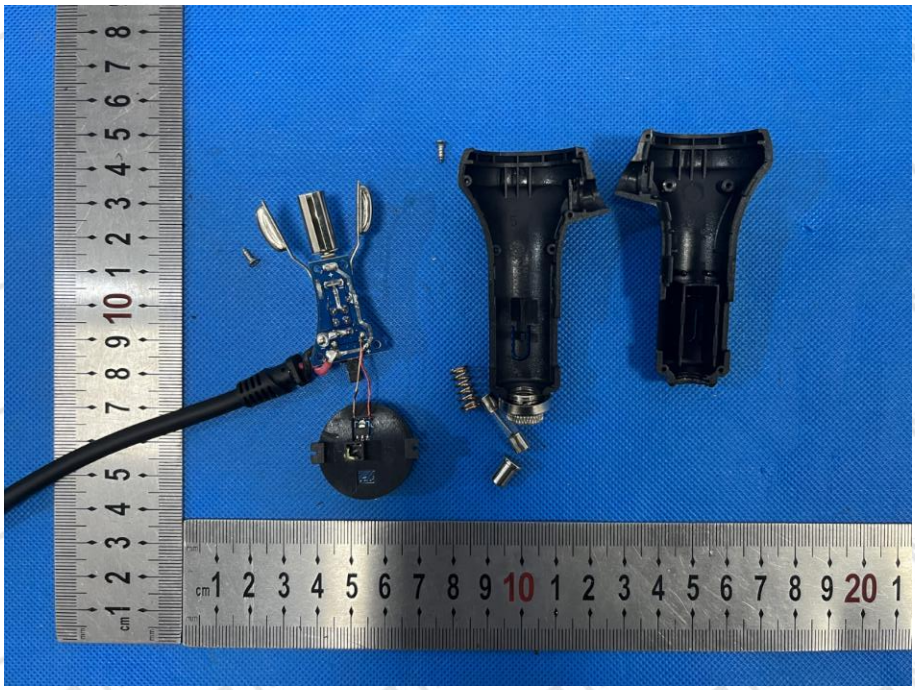

Fig. 8

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