



RoHS Consolidated Test Report

Applicant	:	ShenZhen HAWHEEL Technology Limited
Applicant Address	:	807,Building 614,Bagua 1st Road,Yuanling Street,Futian District,Shenzhen,Guangdong
Manufacturer	:	ShenZhen HAWHEEL Technology Limited
Manufacturer Address	:	807,Building 614,Bagua 1st Road,Yuanling Street,Futian District,Shenzhen,Guangdong
Product	:	Portable solar panel charger
Model No.	:	HWL2759B, HWL2758B, HWL2702, HWL2703, HWL2704, HWL2714, HWL2722, HWL2723, HWL2724, HWL2742, HWL2743, HWL2744, HWL2749B, HWL2750B, HWL2751B, HWL2753B, HWL2760B, HWL2761B, HWL2762B, HWL2763B
Trademark	:	HAWHEEL
Date of Issue	:	Mar.18,2020

Test Standards: RoHS directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102

Test Method:

Tested Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321-5:2013	ICP-OES	2mg/kg
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	2mg/kg
Mercury(Hg)	IEC 62321-4:2013+A1:2017	ICP-OES	2mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015 IEC 62321-7-2:2017	UV-VIS	2mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5mg/kg
Di-(2-ethylhexyl) phthalate(DEHP)	IEC 62321-8:2017	GC-MS	50mg/kg
Benzylbutyl phthalate(BBP)	IEC 62321-8:2017	GC-MS	50mg/kg
Dibutyl phthalate (DBP)	IEC 62321-8:2017	GC-MS	50mg/kg
Diisobutyl phthalate(DIBP)	IEC 62321-8:2017	GC-MS	50mg/kg

Test Result(s) Please refer to the following page(s).

Approved by: *Kevin Yang*
(Kevin Yang)





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No.	Component	Issue Body	Report No.& Issue Date	Test Data(ppm)
01	Solar panels	SGS	SH190156428/CHEM Date:2019/12/05	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D
02	Solar panel holder	SGS	GZ1904613588/CHEM Date:2019/12/09	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D
03	Plastic shell	SGS	SH19046355/CHEM Date:2019/10/21	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D
04	Soldering	SGS	KA/2019/19467 Date:2019/11/16	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D



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05	Screw	SGS	KA/2019/C1997 Date:2019/08/15	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D
06	Resistance	SGS	EC190941365 Date:2019/09/27	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D
07	Capacitance	SGS	KA/2019/C1906 Date:2019/08/16	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D
08	Glass glue	SGS	GZ1909473526/CHEM Date:2019/11/07	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D



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09	Gasket	SGS	GZ1909453497/CHEM Date:2019/12/16	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D
10	Connector	SGS	CANEC190402468 Date:2019/08/11	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D
11	PCB	SGS	SH190046574/CHEM Date:2019/09/30	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D
12	Inductance	SGS	GZ0907492364/CHEM Date:2019/12/19	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D



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No.	Component	Issue Body	Report No.& Issue Date	Test Data(ppm)
13	Wire	SGS	CANEC1967465247 Date:2019/11/25	Cd: N.D Pb: N.D Hg: N.D Cr ⁶⁺ :N.D PBBS: N.D PBDES: N.D DEHP:N.D BBP:N.D DBP:N.D DIBP:N.D

Remarks:

- (1) This report is not a formal test report but only consolidating the test data listed above;
- (2) Test results are from other testing organizations. Shenzhen HTT Technology Co., Ltd.
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- (3) The report shall not be reproduced in part without written approval of us.

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Photo(s) of the sample(s)



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