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Applicant: Zendure USA Inc.

Address: 1765 E BAYSHORE RD # 201 EAST PALO ALTO, CA 94303-5501

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Hyper 2000 Hybrid Inverter

Model/Style/Item #: ZDHYP2000

Manufacturer: ZENDURE TECHNOLOGY CO., LIMITED/RM 517, NEW CITY CENTRE, 2 LEI YUE MUN

ROAD, KWUN TONG, KOWLOON.HK

Brand: ZENDURE

SuperCharged @>

Receiving Date: 9-May-2024,22-May-2024

Test Period: From 9-May-2024 to 23-May-2024

Add Information:

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP and DIBP EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS)	IEC 62321-3-1:2013 IEC 62321-4:2013+A1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017	PASS

Signed for and on behalf of ST

Mark Mai (Technical Director)

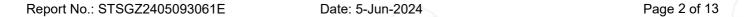
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Result:

1.1 EU RoHS Directive 2011/65/EU and its amendment directives on XRF IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Son No	Tested Part(s)		Results				
Seq. No.			Cd	Hg	Cr	Br	
1	Dark grey coating,shell	BL	BL	BL	BL	BL	
2	Silvery metal,shell	BL	BL	BL	BL	NA	
3	Black coating,base	BL	BL	BL	BL	BL	
4	Silvery metal,base	BL	BL	BL	BL	NA	
5	Silvery metal,screw	BL	BL	BL	Х	NA	
6	Silvery metal,button	BL	BL	BL	BL	NA	
7	Black soft plastic,wire jacket	BL	BL	BL	BL	BL	
8	Red printed white soft plastic,wire jacket	BL	BL	BL	BL	BL	
9	Silvery metal,solder	BL	BL	BL	BL	NA	
10	Black plastic,plug	BL	BL	BL	BL	BL	
11	White printed black/white soft plastic,wire jacket	BL	BL	BL	BL	BL	
12	Red soft plastic,ring	BL	BL	BL	BL	BL	
13	Silvery metal,port	BL	BL	BL	BL	NA	
14	Silvery metal,plug	BL	Х	BL	BL	NA	
15	White printed black soft plastic,wire cover	BL	BL	BL	BL	BL	
16	Black soft plastic,wire holder	BL	BL	BL	BL	BL	
17	White printed blue soft plastic,wire jacket	BL	BL	BL	BL	BL	
18	Black printed yellow soft plastic,wire jacket	BL	BL	BL	BL	BL	
19	Red soft plastic,wire jacket	BL	BL	BL	BL	BL	
20	Black printed green soft plastic,wire jacket	BL	BL	BL	BL	BL	
21	Black soft plastic,wire jacket		BL	BL	BL	BL	
22	Silvery metal,big port	Х	Х	BL	BL	NA	
23	Golden metal,contact plate	BL	BL	BL	BL	NA	
24	Green PCB	BL	BL	BL	BL	Х	

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25	Silvery metal,solder	BL	BL	BL	BL	NA
26	Black textile with transparent soft plastic,tube	BL	BL	BL	BL	BL
27	Black printed orange soft plastic,wire jacket	BL	BL	BL	BL	BL
28	White printed black soft plastic,wire jacket	BL	BL	BL	BL	BL
29	White printed red soft plastic,wire jacket	BL	BL	BL	BL	BL
30	Golden metal,pin	Х	BL	BL	BL	NA

Remark:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	BL≤50-3σ< X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤ OL	BL≤500-3σ< X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X
Br	mg/kg	BL≤300-3σ< X		BL≤250-3σ< X

Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

NA = Not Applicable

- (2) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives (EU) 2015/863:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100

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Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenyl ethers (PBDEs)	1000

(4) Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect(e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

- (5) The selection of test portions was recommended by the client and the conclusion of chemical test is only for the selected portions.
- (6) The data of #9 was retesting result.

Lead Content (Pb)

IEC62321-5:2013, acid digested and determined by AAS

Compound		Mate	Limit	RL	
	Compound	22	30	(mg/kg)	(mg/kg)
1	Lead (Pb)	22376	23694	1000	10
	Conclusion	PASS*	PASS*	-	-

(a) mg/kg: milligrams per kilogram (b) RL: Report limit Remark(s):

(c) N.D.: Not detected (result is less than RL)

= Copper alloy containing up to 4% lead by weight

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1.3

Cadmium Content (Cd) IEC62321-5:2013, acid digested and determined by AAS

	Compound	Mate	Limit	RL	
	Compound	14	22	(mg/kg)	(mg/kg)
1	Cadmium (Cd)	N.D.	36	100	10
	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

Hexavalent Chromium (Cr(VI))

Metal: IEC 62321-7-1:2015, extracted by boiling water and analyzed by UV-Vis Non-metal: IEC 62321-7-2:2017, alkaline digested and analyzed by UV-Vis

Compound		Material	Limit	DI.
		5	Limit	RL
1	Hexavalent Chromium (Cr(VI))	Negative	#	-
	Conclusion	PASS	-	-

Remark(s) (a) ug/cm²: microgram per square centimeter (b) RL: Report Limit

(c) Negative = Sample Cr(VI) concentration is less than 0.10 ug/cm² Positive = Sample Cr(VI) concentration is greater than 0.13 ug/cm²

(d) # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement. Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.

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1.5 Polybrominated Biphenyls and Polybrominated Diphenyl Ethers (PBBs and PBDEs) IEC 62321-6:2015, solvent extract and determined by GC/MS

	Compound	Material	Limit	RL	
	Compound	24	(mg/kg)	(mg/kg)	
1	Monobromo biphenyl	N.D.	-	50	
2	Dibromo biphenyl	N.D.	-	50	
3	Tribromo biphenyl	N.D.	_	50	
4	Tetrabromo biphenyl	N.D.	-	50	
5	Pentabromo biphenyl	N.D.) -	50	
6	Hexabromo biphenyl	N.D.	-	50	
7	Heptabromo biphenyl	N.D.	-	50	
8	Octabromo biphenyl	N.D.	-	50	
9	Nonabromo biphenyl	N.D.	-(5)	50	
10	Decabromo biphenyl	N.D.	-	50	
11	Monobromo diphenyl ether	N.D.	-	50	
12	Dibromo diphenyl ether	N.D.	-	50	
13	Tribromo diphenyl ether	N.D.	-	50	
14	Tetrabromo diphenyl ether	N.D.	-	50	
15	Pentabromo diphenyl ether	N.D.	_	50	
16	Hexabromo diphenyl ether	N.D.		50	
17	Heptabromo diphenyl ether	N.D.	-	50	
18	Octabromo diphenyl ether	N.D.	-	50	
19	Nonabromo diphenyl ether	N.D.	- /	50	
20	Decabromo diphenyl ether	N.D.	- (50	
21	Sum of PBBs	N.D.	1000	-	

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22	Conclusion	PASS	-	-
22	Sum of PBDEs	N.D.	1000	_

Remark(s): (a) mg/kg: milligram per kilogram

(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

Phthalates - (DBP, BBP, DEHP, DIBP) 1.6

IEC 62321-8:2017, Solvent extract and determined by GC/MS

Compound		Material				Limit (9/)	DI (0/)	
	Compound		1+3	7+8+11	10	12+15+16	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	ВВР	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

Compound				Limit (0/)	DI (0()			
			17+18+19	20+21	24	26	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

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			Material		
Compound			27+28+29	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	0.1	0.005
	Conclusion		PASS	-	-

Remark(s): (a) RL: Report limit (b) N.D.: Not detected (result is less than RL)

Photo(s):



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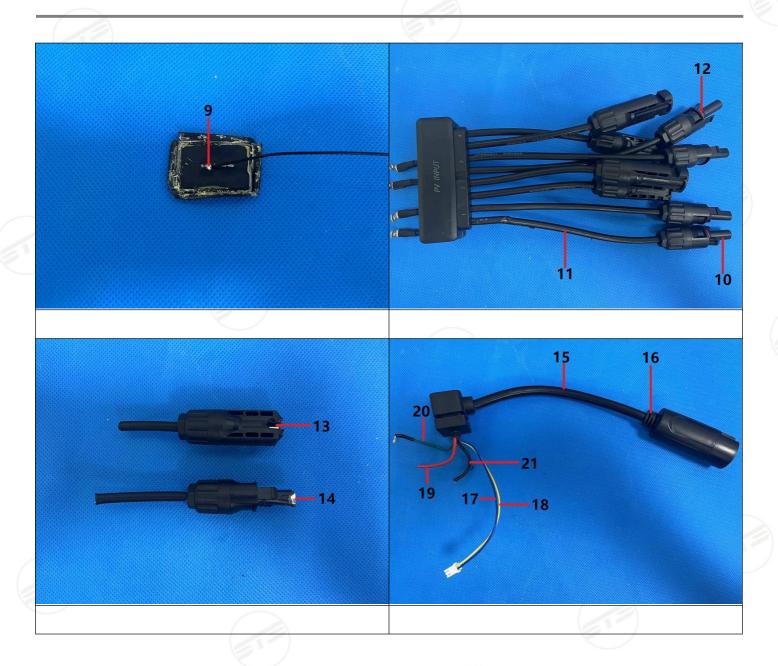
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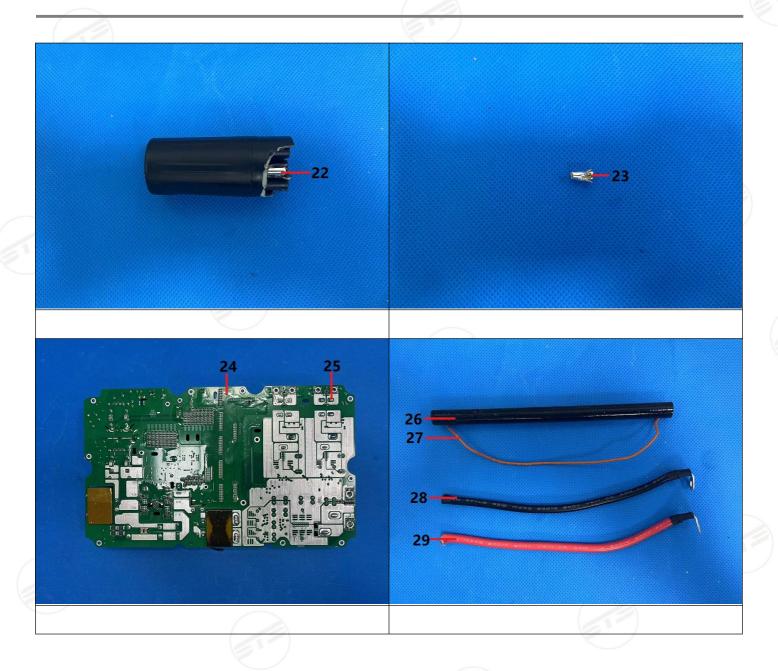
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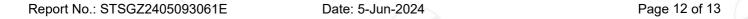


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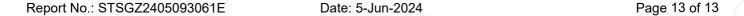
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