



a seacomp company

## SPECIFICATION FOR APPROVAL

<b>MODEL NUMBER</b>	
<b>PART NUMBER</b>	HDP-ALL-0005
<b>DESCRIPTION</b>	International adapters (AU, EU, UK, BLACK)
<b>CUSTOMER / PROJECT CODE</b>	
<b>REVISION</b>	A1
<b>DATE</b>	December 20, 2019

<b>CUSTOMER APPROVAL</b>	<b>DATE</b>
<b>SEACOMP ENGINEERING APPROVAL</b>	<b>DATE</b>

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## 1 Scope

This specification is for international adapters IEC Type-C, Type-G and Type-I to allow connectivity to worldwide AC receptacles.

Type-C: Europe except UK

Type-G: UK, Ireland, Malaysia, Singapore and Hong Kong

Type-I: Australia, New Zealand and Argentina

These Plugs allow connectivity into many other countries. Listing all is beyond the scope of this specification. Full list of these countries can be found in IEC website. "<http://www.iec.ch/worldplugs/>"

## 2 Quality Requirements

### 2.1 Product Specific Quality Requirements

#### 2.1.1 Mechanical / Electrical Requirements

##### 2.1.1.1 Paint and Print Test

In accordance with EN 60068-2-70

The printings have to withstand the testing procedures without any restrictions.

Test liquid	Mineral oils (example: Baby oil)
Wiping cycles	1,000
Contact pressure	1N ±0.2N

##### 2.1.1.2 Mechanical and Electrical Reliability

All electrical contacts and mechanically moving parts have to withstand a stress test of at least 3,000 simulated connecting cycles without any damage. After the test, the device must have 100% functionality. Connectors must comply with the manufacturer's requirements or relevant standards at minimum.

##### 2.1.1.3 Drop Test

This test requires the device to be dropped from a height of 1 meter onto a concrete floor. The drop should cover all surfaces including the 2 edges and all 4 corners. After the test, the device should have 100% functionality. There should not be any cracks, breaks or damage to any surface or have any loose internal components. Additionally, the ultrasonic weld joint should still be intact with minimum 80% coverage.

##### 2.1.1.4 Enclosure Crush Test

This test applies a uniform distributed weight of 250 Newtons on all surfaces for 5 seconds per surface. There should be no physical damage or effect on the products performance (i.e. operating folding AC blade, easy insertion of international adapters, snug USB connector fit).

#### 2.1.2 Climate Requirements

##### 2.1.2.1 Temperature Range

Full Functionality	0°C up to +50°C for AC/DC, -10°C up to +65°C for DC/DC
Storage Temperature	-20°C up to +85°C

##### 2.1.2.2 Thermal Shock (operational)

Low Temperature	-10°C (DC/DC), 0°C (AC/DC)
High Temperature	+65°C (DC/DC), 50°C (AC/DC)
T / t	15°C/min
Cycle Duration	1 hour
Number of Cycles	10

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Mode of Operation Minimum 75% full load  
 Requirement 100% functionality after test, without any damages or physical change

**2.1.2.3 Thermal Shock (non-operating)**

Low Temperature -20°C  
 High Temperature +85°C  
 T / t 15°C/min  
 Cycle Duration 1 hour  
 Number of Cycles 10  
 Mode of Operation Switched off  
 Requirement 100% functionality after test, without any damages or physical change

**2.1.2.4 Thermal Aging**

Temperature -20°C and +85°C  
 Duration 96 hours at each temperature  
 Mode of Operation Power off  
 Requirement 100% functionality after test, without any damages or physical change

**2.1.2.5 Humidity (non-condensing)**

Temperature +45°C  
 Humidity 95%  
 Duration 96 hours  
 Mode of Operation Power up no load  
 Requirement 100% functionality after test, without any damages or physical change

**2.1.2.6 Humidity (condensing)**

Upper Temperature +45°C  
 Lower Temperature +25°C  
 Humidity 95%  
 Test Cycle 5°C / max ramp rate  
 Duration 96 hours  
 Number of cycles 6  
 Mode of Operation Power up no load  
 Requirement 100% functionality after test, without any damages or physical change

**2.1.2.7 Salt Spray**

Follow ASTM B117 standard with the possible exceptions listed below.

Temperature 35°C + 1.1 / - 1.7°C  
 Salt Solution 5%+/-1 Salt solution (NaCl) in Distilled or D1193 Type IV water  
 PH 6.5 - 7.2  
 Fog Rate 1m - 2 mL / hr / 80sq.cm  
 Duration 24 hours

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## 2.2 General Quality Requirements

### 2.2.1 Product Related Requirements

#### 2.2.1.1 General Appearance

Follows cosmetic requirements listed in Section 4 of this specification.

#### 2.2.1.2 Emissions

The device must not produce any nuisance or unhealthy smell. A certificate must be made available proving the use of harmless materials.

#### 2.2.1.3 Product Safety

The product has to comply with the relevant requirements listed in IEC 60950 (ITE) and IEC 60601 (medical) whenever applicable.

Normal usage of the product must not result in any danger. In particular, any broken component parts, including electric components, may not result in any risk or danger of injury to the user. This is to be proven by a risk analysis during the product's development phase. Any potential hazard has to be indicated clearly in the user manual.

During normal use at an ambient temperature of 25°C, the housing (made of synthetic material) may warm up by 50K. Therefore, the maximum temperature of the parts could be as high as 75°C.

Individual "Hot Spots" (maximum size of 2 cm<sup>2</sup>) is acceptable if they are not located in the grip area. A warm up by 60K is acceptable in these "Hot Spots." Therefore, the maximum temperature of these parts could be 85°C.

For both normal use and "Hot Spot" instances, the housing must not exceed the maximum temperature of the applied synthetic.

Protective actions against confusing the poles of the electric connectors have to be taken for any internal parts or connectors with specific polarity.

Transportation, storage, and operation of the adapter must not create any hazard, personal injury or any material damage. This is guaranteed through the controllable quality of workmanship and material used.

It must be guaranteed that after contact with natural oils, the housing material's performance does not result in any dangerous situations to the customer.

#### 2.2.1.4 Recycling and Environmental Compatibility

Must comply with RoHS and REACH.

Quality Level, (AQL)

In accordance with DIN ISO 2859 Part 1

General test-level	II
Critical defects	AQL 0
Major defects	AQL 0.4
Minor defects	AQL 0.65

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## 2.2.2 Supplier Related Requirements

### 2.2.2.1 Demonstration of Quality

The supplier is obliged to maintain a quality assurance system which covers R&D and production specific items. This system must meet the requirements of ISO 9000-2008. A quality assurance plan (QA plan) is required for a project-specific proof of quality-assuring measures. The plan should be made available and presented upon request.

For the development phase, the QA plan needs to define milestones as proof of the reliability prognoses. The development results and the release by the customer need to also be included in this plan.

For the production phase, the QA plan has to focus on the detailed verification of all the planned QA steps from component procurement to delivery. Any acceptance or error criteria to be applied to the QA plan must meet the process capability index as defined in this specification.

### 2.2.2.2 Process Assurance

The quality capability has to be proven by a process capability of  $C_{pk} > 1.33$  and must be documented by a continuous monitoring of the production process. Parameters relevant for this process capability will be marked separately in the product's construction documents.

### 2.2.2.3 Reliability

The probability of failure and the return of devices for repair must be less than 1% per year.

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### 3 Cosmetic

#### 3.1 Surface Definitions

Level A is the primary surface. For example, the front face of the adapter.

Level B is a secondary surface that may be viewed periodically by the end user, but is not in direct view during normal use. For example, the Cable (AC and DC), the sides of the housing, and the back of the housing.

Level C surfaces are not visible by the end user. For example: inaccessible inside surfaces of the product.

#### 3.2 Inspection Conditions

4.2.1 Inspection Method: Light source: Cool white fluorescent lamp 750 – 1000Lux

4.2.2 Viewing Distance: 30cm

4.2.3 Viewing Angle: 0 – 90 Degrees

4.2.4 Part Rotation Angle During Inspection:

Vertical Rotation Angle 180 Degrees

Horizontal Rotation Angle 360 Degrees

4.2.5 Viewing Time:

10 seconds total for all surfaces



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### 3.3 Cosmetic Defect Definitions

Defect	Level A	Level B	Level C
Scratches, Dents, and Burrs (see Note 1)	Single defect not exceeding total surface area 5.50 mm <sup>2</sup>	Two defects not exceeding total surface area 11 mm <sup>2</sup>	Accept if it does not affect fit or function
Hairline Scratches, Gate Blush/Trim, Stress	Use 25% Contrast Standard to accept or reject for visible hairline scratches with depth of < 0.1 mm (total surface area not to exceed limits set in surface scratch below)		
Surface Scratches, Scuffs (see Note 1)	Single defect not exceeding total surface area of 5.7 mm <sup>2</sup>	Two defects not exceeding total surface area 25 mm <sup>2</sup>	Accept if it does not affect fit or function
Chips, Nicks, Cracks or Broken Features	Not Allowed		
Flash, Burrs, Sink Marks (see Note 2)	Not Allowed	Less than 0.5mm	Accept if it does not affect fit or function
Discoloration	Follow color samples		
Parting Lines	See diagram		
General Stains (not permanent)	Not allowed		
Rust	Not allowed		
Printing	No missing text or mistakes allowed. All letters should be visible. Refer to approved sample.		

**Note 1:**

Area called out in these fields are calculated based on limit samples. The values are calculated based on average area covered by the features.

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### 3.4 Size / Weight IEC Type -I

1. production for all components shall not be started before confirmation by HDP engineer.  
(所有零部件都需经延期工程师确认后才可以生产.)

2. Dimensions marked as ① are HDP control dimensions and must comply to Cpm $\geq 1.33$ (to be inspected by IQC).  
(有“①”标记的尺寸为重要管制尺寸, 其Cpm必须 $\geq 1.33$  (IQC必检))

3. Dimensions marked as ■ are customer control dimensions (to be inspected by IQC).  
(有“■”标记的尺寸为客户重要管制 (IQC必检) 尺寸)

4. Dimensions unmarked please refer to 3D CAD/未标示的尺寸请参照3D CAD.

5. Material should comply with ROHS standard/产品材质应符合ROHS.

6. Material (材质): 无铅 Sn + Cu

7. Surface treatment (表面处理): 见差异表

REV.	DESCRIPTION	BY	DATE	ECN NO.
①	初版发行	肖志斌	2016.01.21	
②	修改公差	肖志斌	2016.01.26	
③	增加注释	肖志斌	2016.01.29	ECN-48
④	增加YYWW	肖志斌	2017.04.20	ECN-218

推力值改为: 大于17KG

序号	料号	表面处理
1	880-00020	Cu镀镍, 塑胶为黑色素材, 表面晒纹, 晒纹型号: VD127, 外观表面不能有杂色.
2	880-00036	Cu镀镍, 塑胶为白色素材, 表面晒纹, 晒纹型号: VD127, 外观表面不能有杂色.

差异表

Third Angle Projection				This sample is the property of HDP corporation. It is not to be distributed or reproduced in any form without the prior written permission of HDP. Reproduction or distribution for general sale, advertising, promotion and other purposes is strictly prohibited.				
Version NO.:	Scale:	DATE:	DATE:	Dimension	F	G	H	J
Drawn By:	Checked By:	Drawn By:	Approved By:	0-8	±0.05	±0.1	±0.1	±0.2
Sample				25-80	±0.12	±0.2	±0.25	±0.3
Tooting				80-250	±0.25	±0.3	±0.4	±0.6
Official Issue				250-800	±0.3	±0.8	±0.8	±1.2
				800-2500	±1.0	±1.0	±1.5	±1.7
				2500-	±2.0	±2.0	±3.0	±3.0

Model NO. / Project Name: Adapters  
Part NO.: 见差异表  
Part Name: AU adapters

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### IEC Type -C

**Translation(注记):**

1. production for all components shall not be started before confirmation by HDP engineer.  
(所有零部件都需经过程序工程师确认后才可以生产)

2. Dimensions marked as ① are HDP control dimensions and must comply to Cpm $\geq$  1.33(to be inspected by IQC).  
(有①标记的尺寸为重要管制尺寸, 其Cpm必需 $\geq$ 1.33 (IQC必检))

3. Dimensions marked as ② are customer control dimensions (to be inspected by IQC).  
(有②标记的尺寸为客户重要管制 (IQC必检) 尺寸)

4. Dimensions unmarked please refer to 3D CAD.未标示的尺寸请参照3D CAD.

5. Material should comply with ROHS standard(产品材质应符合ROHS).  
6. Material (材质): PC945 + Cu (weight (重量):          g±5%,  
7. Surface treatment (表面处理):          见差异表

REV	DESCRIPTION	BY	DATE	ECN NO.
①	初版发行	何志斌	2016.01.21	
②	修改公差	何志斌	2016.01.26	
③	增加注释	何志斌	2016.01.29	
④	增加YYWW	何志斌	2017.04.20	ECN-48
⑤	变更推力值为: 大于17kg	何志斌	2019.12.19	ECN-218

Third Angle Projection		The drawing is the property of HDP corporation. Any reproduction or distribution by others is strictly prohibited and will be held liable for the maker use of the product without the written permission of HDP.	
①	②	③	④
Version NO.: A4	Scale: 1:1	UNIT: MM	Size: A3
Drawn By: Heimin	Checked By:	Approved By:	
2019.12.19			

序号	料号	表面处理
1	860-00018	Cu镀银, 塑胶为黑色聚材 表面哑致. 晒纹型号: VD127, 外观表面不能有杂色.
2	860-00034	Cu镀银, 塑胶为白色聚材 表面哑致. 晒纹型号: VD127, 外观表面不能有杂色

Tolerance		Angular					
	F	G	H	J	K	L	M
0-8	±0.07	±0.1	±0.1	±0.2			
8-25	±0.07	±0.1	±0.15	±0.3			
25-80	±0.2	±0.2	±0.25	±0.4			
80-250	±0.5	±0.6	±0.8	±0.6			
250-500	±1.0	±1.0	±1.5	±1.7			
500-2500	±2.0	±2.0	±3.0	±3.0			

Part NO.	见差异表
Part Name.	EU adapters
Model NO./Project Name:	PNED004

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### IEC Type -G

**Translation(注记):**  
 1. production for all components shall not be started before confirmation by HDP engineer.  
 (所有零部件都需经过翔工工程师确认后才可以生产)  
 2. Dimensions marked as ① are HDP control dimensions and must comply to Cpm $\geq$  1.33(10 to be inspected by IQC).  
 (有①标识的尺寸为重要管制尺寸, 其Cpm必须 $\geq$  1.33 (IQC必检))  
 3. Dimensions marked as ② are customer control dimensions (to be inspected by IQC). (有②标识的尺寸为客户重要管制 (IQC必检) 尺寸)  
 4. Dimensions unmarked please refer to 3D CAD. 未标示的尺寸请参照3D CAD.  
 5. Material should comply with ROHS standard. 产品材质应符合ROHS.  
 6. Material (材质): PC+ABS + Cu (weight (重量):  $g\pm 5\%$ .)  
 7. Surface treatment (表面处理): 见差异表

文字高度约为: 2.5MM

推力值大于17KG

剖面 A-A

REV.	DESCRIPTION	BY	DATE	ECN NO.
①	初版发行	肖志斌	2016.01.21	
②	修改公差	肖志斌	2016.01.26	
③	增加注释	肖志斌	2016.01.29	ECN#8
④	增加YYWW	肖志斌	2017.04.20	ECN#8
⑤	推力值变为: 大于17kg	肖志斌	2019.12.19	ECN#218

序号	料号	表面处理
1	880-00019	Cd镀锌, 塑胶为黑色素材, 表面哑纹, 喷纹型号: VD27, 外观表面不能有杂色.
2	880-00035	Cd镀锌, 塑胶为白色素材, 表面哑纹, 喷纹型号: VD27, 外观表面不能有杂色.

Third Angle Projection		This drawing is the property of HDP Corporation. Any reproduction or use of this drawing without the prior written permission of HDP Corporation is prohibited for the sole use of the intended recipient and is restricted to the use of the recipient for the use of the product.	
Version NO.:	AA	Scale:	1:1
Drawn By:		Checked By:	
Sample		Approved By:	
Tooling			
Official Issue			

Dimension	F	G	H	J
0-25	±0.05	±0.1	±0.1	±0.2
25-50	±0.07	±0.15	±0.15	±0.3
50-75	±0.1	±0.2	±0.25	±0.4
75-100	±0.15	±0.3	±0.4	±0.6
100-125	±0.2	±0.4	±0.5	±0.8
125-150	±0.25	±0.5	±0.6	±1.0
150-200	±0.3	±0.6	±0.8	±1.2
200-250	±0.4	±0.8	±1.0	±1.5
250-300	±0.5	±1.0	±1.2	±1.7
300-350	±0.6	±1.2	±1.5	±2.0
350-400	±0.7	±1.5	±1.7	±2.5
400-450	±0.8	±1.7	±2.0	±3.0
450-500	±0.9	±2.0	±2.5	±3.5

Part Name	Part NO.
见差异表	
UK adapters	

Model NO. / Project Name:
Adapters
Finished Goods Part NO.

FIN52004

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## 4 Packaging

### 4.1 Drawing (Adapter Packaging)

**Translation (注意):**  
 1. production for all components shall not be started before confirmation by HDP engineer.  
 (所有零部件需经迈瑞工程师确认后才可以生产)  
 2. Dimensions marked as ① are HDP control dimensions and must comply to Cmm≥ 1.33 (to be inspected by IQC).  
 (所有①标记的尺寸为重要管制尺寸, 其Cmm必需≥1.33 (IQC必检))  
 3. Dimensions marked as ② are customer control dimensions (to be inspected by IQC).  
 (所有②标记的尺寸为客户重要管制 (IQC必检) 尺寸)  
 4. Dimensions unmarked please refer to 3D CAD (未标示的尺寸请参照3D CAD).  
 5. Material should comply with ROHS standard (产品材质应符合ROHS).  
 6. Material (材质): \_\_\_\_\_ (weight (重量): **g±5%**)  
 7. Surface treatment (表面处理): \_\_\_\_\_

① 每PCS产品需用PE袋包装

② 白盒装 1PCS EU, 1PCS AU, 1PCS UK.

③ 总重量为: 8500g (8.5kg)  
 总重量为: 6100g (6.1kg)  
 重量仅供参考。

④ 外箱装 100PCS 白盒, 每PCS白盒装 3PCS 产品, 1外箱共装 300PCS 产品

EU 100PCS  
 AU 100PCS  
 UK 100PCS

外箱

白盒

90.0 REF. 45.0 REF. 55.0 REF.

215.0 173.0 REF. 295.0 REF.

⑤ 标签贴在正中间

REV.	DESCRIPTION	BY	DATE	ECN NO.
Δ	初版发行 (Initial Release)	肖志斌	2018.06.29	
Δ	格式标准	肖志斌	2019.09.20	ECN 209
Δ				

Third Angle Projection		Version NO.:		Scale:		Unit:	
Quotation	A1	Version NO.:	1	Scale:	1:1	Unit:	MM
Sample	肖志斌	Drawn By:	肖志斌	Checked By:	肖志斌	Approved By:	肖志斌
Toiling	肖志斌	Drawn Date:	2019.09.20	Checked Date:	2019.09.20	Approved Date:	2019.09.20
Official Issue		Drawn By:	肖志斌	Checked By:	肖志斌	Approved By:	肖志斌

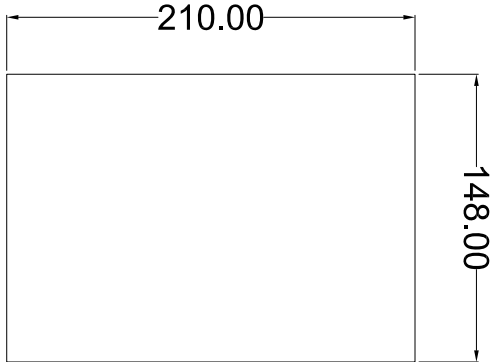
序号	名称	料号	描述	用量
1	PE袋	840-00068		300PCS
2	白盒	840-00132		100PCS
3	托盘	840-00280		3PCS
4	外箱	840-00279		1PCS
5	发货漆	840-00455		2PCS

Dimension	F	G	H	J
0-8	±0.05	±0.1	±0.1	±0.2
8-25	±0.05	±0.05	±0.15	±0.3
25-80	±0.12	±0.2	±0.25	±0.6
80-250	±0.25	±0.3	±0.4	±0.6
250-500	±0.5	±0.6	±0.8	±1.0
500-2500	±1.0	±2.0	±3.0	±1.2
2500-	±2.0	±3.0	±5.0	±1.5

Model NO./ Project Name:	Model NO./ Project Name:
ADAPTER	ADAPTER
Finished Goods Part NO.	Finished Goods Part NO.
单盒装	单盒装
Part NO.	Part NO.
Printing Name:	Printing Name:
肖志斌	肖志斌
(Mechanical Assembly) Drawing	(Mechanical Assembly) Drawing

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<b>PART NUMBER</b>	HDP-ALL-0005	<b>REVISION</b>	A1
<b>DESCRIPTION</b>	International adapters (AU, EU, UK, BLACK)	<b>DATE</b>	Dec 20, 2019

# Master Carton Label



A5 Blank Label (Purchasing)  
 A5 空白标签 / 材质: 白底铜版纸 (采购)  
 P/N: 840-00456

Print the label (Self-made)  
 打印标签 (自制)  
 Fonts/字体: Arial

**SEACOMP**

PN: XXXXXXXXXXXX  
 QTY: XXX PCS  
 P/O NO: XXXXXXXX  
 DATE CODE: XXX-XXXX  
 GROSS WEIGHT: XX.XX KG  
 NET WEIGHT: XX.XX KG  
 SIZE: XX x XX x XX CM  
 CARTON: X / X

SEACOMP  
 2546 GATEWAY ROAD, CARLSBAD,  
 CALIFORNIA 92009, USA  
 TEL: 1.760.438.9600  
 FAX: 1.760.650.7211  
 EMAIL: SALES@SEACOMP.COM  
 MADE IN CHINA

Seacom 产品料号  
 箱内产品数量  
 客户订单编号  
 周码: 1915-1916  
 整箱产品的毛重, 保留两位小数  
 整箱产品的净重, 保留两位小数  
 纸箱的外框尺寸  
 依箱随向

**SEACOMP**

PN: XXXXXXXXXXXX  
 QTY: XXX PCS  
 P/O NO: XXXXXXXX  
 DATE CODE: XXX-XXXX  
 GROSS WEIGHT: XX.XX KG  
 NET WEIGHT: XX.XX KG  
 SIZE: XX x XX x XX CM  
 CARTON: X / X

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 MADE IN CHINA

差异表 (Comparison Table)

成品料号 (Finished Goods P/N)	描述 (Description)
HDP-ALL-0005	黑色 (Black)
HDP-ALL-0004	白色 (White)

**HDP**  
a seacom company

Third Angle Projection

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Version NO.: A1	Scale: 1:1	Unit: MM
Drawn By: 肖志斌	Checked By:	Approved By: Oct 17, 2019
Sample	Tooling	2019.09.20
Official Issue		

Tolerances			
Angular	±0.25°	F	G
0-8	±0.05	±0.1	±0.1
8-25	±0.08	±0.15	±0.2
25-80	±0.12	±0.25	±0.3
80-250	±0.25	±0.3	±0.4
250-800	±0.5	±0.8	±1.0
800-2500	±1.0	±1.5	±1.7
2500+	±2.0	±3.0	±3.0

Model NO. / Project Name: OB

Finished Goods Part NO.: 黑壳料表

Part NO.: /

Drawing Name: 包装组装图 (Packaging Assembly Drawing)

FME004

<b>MODEL NUMBER</b>		<b>PAGE</b>	14 of 14
<b>PART NUMBER</b>	HDP-ALL-0005	<b>REVISION</b>	A1
<b>DESCRIPTION</b>	International adapters (AU, EU, UK, BLACK)	<b>DATE</b>	Dec 20, 2019

## 4.2 Packaging Test

1	Bulk product	<p>Drop package on each side for a total of 10 drops (2 opposite corners, 3 adjacent sides of bottom corner, then all 6 faces) per system on concrete floor from a height of 1.0 meter. This is an operational test.</p> <p>Pass/Fail Criteria:            1. The systems shall pass Functional Test.            2. No visible damage to product and gift box.</p>
2	Drop test for Packaged Product (gift box, clamshell, etc.)	<p>Drop fully packaged products (in gift box or clamshell) onto a concrete floor from height of 153cm for 10 drops on the six surfaces and four corners.</p> <p>Pass/Fail Criteria:            1. The systems shall pass Functional Test.            2. Paper or PET deformation is acceptable. No damage in product integrity of packaging materials (e.g. sealed edge openings) is allowed.</p>
3	Sinusoidal Vibration	<p>Test with sine wave that will sweep the frequency from 7 - 500 hertz for construction test; 5 - 70 hertz for packaging test. Displacement &gt;3.15mm. Total test duration time shall be 30 min (10 min per axis). Test shall be performed in three mutually perpendicular axes: Z-axis (vertical), Y-axis (fore-aft), and X-axis (lateral).</p> <p>Pass/Fail Criteria:            The UUT and packaging shall withstand the above test procedure without visible damage or performance decline during operation.</p>

## 5 Warranty

One year warranty for defects arising from workmanship and materials per the SEACOMP Warranty, RMA, and Failure Analysis Policy.