



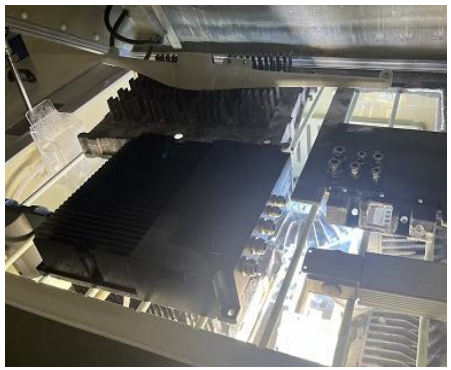
# Product Verification and Reliability Report

Product Name: DCE PSU 240 IP



Test Performed	Test condition	Test Duration	Test Lab	Test Result
EFT	EN 61000-4-2, Industry Input: 2KV	N/A	3rd Party Lab	Pass (Criteria A)
Surge	EN 61000-4-5, Industry L-N: 2KV & L,N-PE: 4KV	N/A	3rd Party Lab	Pass (Criteria A)
Overload Burn-in test	Input voltage: 230 VAC at Ta 25°C	1h	3rd Party Lab	Pass
Operation Temperature test	According to IEC 60068-2-1&2 The full functionalities and performances validated at -30°C/40°C temperature range	N/A	3rd Party Lab	Pass
Thermal Shock test	Temperature Range: -40°C ~ +65°C Temperature change rate: < 3mins Dwell time: 30mins for each Total test cycle: 10 cycles 230 VAC Input with full load	10h	3rd Party Lab	Pass
Lifetime Operating test	1.Test with fixtures (Exterior Dot-HP Pro) at full load mode 2.Weekly function check and record	62000h	3rd Party Lab	Pass
Application Vibration test - Both transportation and installation	Sine Vibration (Marine)- IEC 60068-2-6	3 x 30 mins/axis	Martin Professional	Pass
	Random Vibration (Marine)- IEC 60068-2-64	3 x 30 mins/axis		
	Random Vibration without power (Touring)- IEC 60068-2-27	3 x 30 mins/axis		

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	<p>Mechanical Shock (Touring) without power- IEC 60068-2-64</p>	<p>500*6 pulses</p>		
<p><b>Degrees of Enclosure Protection</b></p> 	<p>IP 66 according to IEC 60529</p>	<p>N/A</p>	<p>Martin Professional</p>	<p>Pass</p>
<p>IK08 according to IEC 62262 IK 08 Impact energy:5J</p>				
<p><b>Salt mist test</b></p> 	<p>ISO 12944-6: Neutral Salt Spray Category:C5 High 1440h with operation mode</p>	<p>1440h</p>	<p>Martin Professional</p>	<p>Pass</p>

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## Wind load Test



Tested according to EN60598-2-5  
Static load simulating 60 m/sec. (216 km/h) wind  
force without causing failure or permanent set to  
mount bracket

10 mins

Martin  
Professional

Pass

Prepared by:

Zhoubo Li, Test & Validation Engineer

Department:

Martin Professional, R&D, Test & Validation

Date:

2025/09/02

Revision:

A