
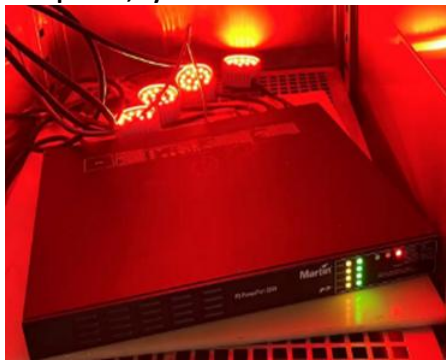



Product Verification and Reliability Report

Product Name: P3 PowerPort 2000



Test Performed	Test condition	Test Duration	Test Lab	Test Result
Operation Temperature Test 	According to IEC 60068-2-1&2 The full functionalities and performances validated at -20°C/45°C temperature range	2 x 24h	Martin Professional	Pass
Damp heat, cyclic test 	According to IEC 60068-2-30 Test Db Variant 1 Upper temperature: +55°C Lower temperature: +25°C Humidity: 96% RH 24h/cycle, 6 cycles	6 days	Martin Professional	Pass
Lifetime Operating test 	1.Test with fixtures (VDO Sceptron XB) at full load mode 2.Weekly function check and record	10000h	Martin Professional	Pass

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<p>Application Vibration test- Both transportation and installation</p> 	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			
Mechanical Shock (Touring) without power- IEC 60068-2-64	500*6 pulses			
<p>Package test</p>  	ISTA-6A Free Fall Drop Test, 10 drops, 1 corner + 3 edge + 6 surface	N/A	Martin Professional	Pass
ISTA-6A Vibration Test, 0.52Grms (Truck) +1.06Grms (Air)+ 0.52Grms (Truck)	3 x 30 mins/ case			
<p>Hanger test</p> 	Static loading with six times of unit's weight at each mounting orientation and keep for 1h	1h	Martin Professional	Pass

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<p>Safety Wire test</p> 	<p>The height of free fall: 30cm, 30 times</p>	<p>N/A</p>	<p>Martin Professional</p>	<p>Pass</p>
<p>Degrees of Enclosure Protection</p> 	<p>IP 20 according to IEC 60529</p>	<p>N/A</p>	<p>3rd Party Lab</p>	<p>Pass</p>
<p>Acoustic Measurement</p> 	<p>According to ISO 3744, 10 measurement positions(microphone)</p>	<p>N/A</p>	<p>Martin Professional</p>	<p>Pass</p>

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 Revision: A