




Product Verification and Reliability Report

Product Name: P3 PowerPort 500 IP Rental



Test Performed	Test condition	Test Duration	Test Lab	Test Result
Operation Temperature Test 	<p>According to IEC 60068-2-1&2 The full functionalities and performances validated at -30°C/45°C temperature range</p>	2 x 24h	Martin Professional	Pass
Damp heat, cyclic test 	<p>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</p>	6 days	Martin Professional	Pass
Lifetime Operating test 	<p>1.Test with fixtures (Exterior Dot-HP Pro) at full load mode 2.Weekly function check and record</p>	10000h	Martin Professional	Pass

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<p>Application Vibration test - Both transportation and installation</p> 	<p>Sine Vibration (Marine)- IEC 60068-2-6</p>	<p>3 x 30 mins/axis</p>	<p style="text-align: center;">Martin Professional</p>	<p style="text-align: center;">Pass</p>
<p>Random Vibration (Marine)- IEC 60068-2-64</p>	<p>3 x 30 mins/axis</p>			
<p>Random Vibration without power (Touring)- IEC 60068-2-27</p>	<p>3 x 30 mins/axis</p>			
<p>Mechanical Shock (Touring) without power- IEC 60068-2-64</p>	<p>500*6 pulses</p>			
<p>Package test</p> 	<p>ISTA-6A Free Fall Drop Test, 10 drops, 1 corner + 3 edge + 6 surface</p>	<p>N/A</p>	<p style="text-align: center;">Martin Professional</p>	<p style="text-align: center;">Pass</p>
<p>ISTA-6A Vibration Test, 0.52Grms (Truck) +1.06Grms (Air)+ 0.52Grms (Truck)</p>	<p>3 x 30 mins/ case</p>			
<p>Hanger test</p> 	<p>Static loading with six times of unit's weight at each mounting orientation and keep for 1h</p>	<p>1h</p>	<p style="text-align: center;">Martin Professional</p>	<p style="text-align: center;">Pass</p>

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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 65 according to IEC 60529</p>	<p>N/A</p>	<p>3rd Party Lab</p>	<p>Pass</p>
<p>Salt mist test</p> 	<p>ISO 12944-6: Neutral Salt Spray Category:C3 Medium 240h with operation mode</p>	<p>240h</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:

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Department:

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Date:

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