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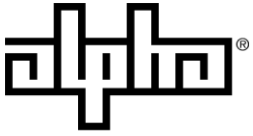
## PCN # [0470470-PCN] 12kW Surge Suppression Improvements

<b>1. Supplier Information</b> Alpha Technologies, Ltd. 7700 Riverfront Gate Burnaby, BC V5J 5M4 Canada	<b>1.6 Supplier Contact Info</b> Contact: JD Fraser Product Manager 604-218-9059 <a href="mailto:jd.fraser@alpha.ca">jd.fraser@alpha.ca</a>												
<b>2. Product Change Notification Number</b> PCN # 0470470-PCN	<b>3. Issue Date of Change</b> Jan 5, 2021												
<b>4. System Affected</b> Major System Affected: CXRF12 Subsystem Affected: CXRF-HP 48-12kW/480 Surge Suppression Hardware Affected: Y Firmware Affected: N Software Affected: N													
<b>5. New Product ID</b> <table border="1"><thead><tr><th colspan="2">Hardware</th></tr><tr><th>Model</th><th>Revision</th></tr></thead><tbody><tr><td>0100020-001</td><td>R</td></tr></tbody></table>	Hardware		Model	Revision	0100020-001	R	<b>6. Old Product ID</b> <table border="1"><thead><tr><th colspan="2">Hardware</th></tr><tr><th>Model</th><th>Revision</th></tr></thead><tbody><tr><td>0100020-001</td><td>P/Q</td></tr></tbody></table>	Hardware		Model	Revision	0100020-001	P/Q
Hardware													
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0100020-001	R												
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0100020-001	P/Q												
<b>7. New CLEI Code</b> N/A	<b>8. Old CLEI Code</b> PWRAAARFAB												
<b>9. Associated Products or Changes Affected</b> N/A													
<b>10. Drawing Number</b> 0100020-04 Assembly Drawing													
<b>11. Classification of Change</b> D	<b>12. Reason for Classification</b> The change includes minor design improvements												



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<b>13. Reason for Change</b> Providing an increased robustness beyond the industry standards of surge suppression in a modern telecommunications environment for additional life expectancy of the rectifier.	
<b>14.1 Description of Change</b> Modified the input surge suppression circuit from a TVSS design to a MOV Surge Suppressor design	
<b>14.2 Change Verification Procedures</b> Physically inspect the CXRF 48-12.0kW rectifier for hardware revision letter R or greater. Or look for a sticker that shows BP25154	
<b>15. Safety Notification</b> N/A	
<b>16. Material Affected</b> N/A	
<b>17. Documentation Affected</b> N/A	
<b>18. Supplier Implementation Date</b> September 2019	<b>19. Modification Completion Date</b> January 2021
<b>20. Modification Location</b> China	
<b>21. Modification Cost</b> N/A	
<b>22. Location and Quantity of Equipment</b> N/A	
<b>23. Attachments</b> N/A	
<b>24. Comments</b> The improvements are implemented due to continued development from understanding of how our customers are using equipment in specific sites and scenarios.	



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- End of Product Change Notification -