



PRODUCT CHANGE NOTIFICATION

PCN # [1140528]

CXCM1+ Controller to Replace CXCM1

1. Supplier Information Alpha Technologies, Ltd. 7700 Riverfront Gate, Burnaby, BC V5J 5M4 Canada Contact: Bill Killion Senior Product Manager 604-422-4487 bill.killion@alpha.ca		2. Product Change Notification Number PCN # 1140528													
3. Issue Date of Change 05/28/2014	4. System and Product Description Alpha Technologies, Ltd. is introducing the CXCM1+ controller to replace the legacy CXCM1 controller, as installed in CXR 48V-1.2kW rectifier shelves and systems														
5. New Product ID <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 30%;">Configuration</th> <th>CXCM1+ P/N</th> </tr> </thead> <tbody> <tr> <td>Horizontal (1U bulk power shelves)</td> <td>0180030-004</td> </tr> <tr> <td>Vertical (2U front access systems)</td> <td>0180030-005</td> </tr> </tbody> </table>		Configuration	CXCM1+ P/N	Horizontal (1U bulk power shelves)	0180030-004	Vertical (2U front access systems)	0180030-005	6. Old Product ID <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 30%;">Configuration</th> <th>CXCM1 P/N</th> </tr> </thead> <tbody> <tr> <td>Horizontal (1U bulk power shelves)</td> <td>018-598-20-043</td> </tr> <tr> <td>Vertical (2U front access systems)</td> <td>018-598-20-042</td> </tr> </tbody> </table>		Configuration	CXCM1 P/N	Horizontal (1U bulk power shelves)	018-598-20-043	Vertical (2U front access systems)	018-598-20-042
Configuration	CXCM1+ P/N														
Horizontal (1U bulk power shelves)	0180030-004														
Vertical (2U front access systems)	0180030-005														
Configuration	CXCM1 P/N														
Horizontal (1U bulk power shelves)	018-598-20-043														
Vertical (2U front access systems)	018-598-20-042														
<p>Note: Above part numbers are for loose controllers (e.g., spares or upgrades). No system or shelf level part numbers are affected.</p>															
7. Associated Products or Changes Affected All 48V-1.2kW based shelves and systems that currently use the CXCM1 controller are candidates for the upgrade to the CXCM1+. These affected systems will include (but are not limited to): <ul style="list-style-type: none"> 030-835-20: Bulk power 1.2kW shelf systems 030-834-20: 2U front access shelf systems 0540569: CXPS-E101 100A standard power systems 0540570: CXPS-E101 225A standard power systems 053-691-20: CXPS 48-1.2-225 standard power systems 															
8. Drawing No.	9. Product Change Classification Class D <i>Changes that incorporate minor new features and design improvements that do not affect the existing functionality or interchangeability of a product, or that involve other minor improvements to service testing, or other capabilities.</i>														

10. Reason(s) for Change The change is being implemented to provide additional features as well as improved performance and robustness of shelves and systems incorporating the CXCM1 controller. The DB-9 modem port was removed due to reliability concerns coupled with reduced market requirements for the feature.	
11. Description of Change <u>Improvements</u> <ul style="list-style-type: none"> • Additional of three (3) form C relays added (seven (7) in total) – for use in future shelf/system development • Improved radiated emissions performance (meets FCC class B as a standalone controller) • Real time clock addition • Increased onboard memory for future support • Various robustness improvements including isolated power supply <u>Feature Removal</u> <ul style="list-style-type: none"> • DB-9 modem port removed 	
12. Effect of Change Change will have no effect to system operation or usability beyond what is stated in 11. “Description of Change”	
13. Material/Product Affected	
14. Documentation Affected Manuals for products which included the CXCM1 will be updated to include information on the updated controller.	
15. Supplier Implementation Date Starting in June 2014, shelves and systems will begin shipping from Alpha’s factory with CXCM1+ controllers integrated. By Q4 2014, all 1.2kW based systems as detailed above will be transitioned to include the CXCM1+ controller installed.	16. Modification Completion Date
17. Modification Location N/A	
18. Modification Cost N/A	



19. Location and Quantity of Equipment
N/A
20. Attachments
None
21. Comments
None