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# Product Change Notification

**PCN # 0470509-PCN**

**FXM HP 650-24, 650-48, 1100, and 2000 UPS Firmware Version 1.30**

<b>1. Supplier Information</b> Alpha Technologies, Ltd. 7700 Riverfront Gate, Burnaby, BC V5J 5M4 Canada	<b>1.2 Supplier Contact Info</b> Contact: Daljit Hothi Product Manager 604 422 4490 <a href="mailto:Daljit.Hothi@Energysys.com">Daljit.Hothi@Energysys.com</a>												
<b>2. Product Change Notification Number</b> PCN # 0470509-PCN	<b>3. Issue Date of Change</b> September 29, 2023												
<b>4. System Affected</b> Major System Affected: Alpha® FXM HP 650-24, 650-48, 1100, 2000 UPS Subsystem Affected: N/A Hardware Affected: No Firmware Affected: Yes Software Affected: No													
<b>5. New Product ID</b> <table border="1"><thead><tr><th colspan="2">Software / Firmware</th></tr><tr><th>Model</th><th>Revision</th></tr></thead><tbody><tr><td>0350120-001</td><td>1.30</td></tr></tbody></table>	Software / Firmware		Model	Revision	0350120-001	1.30	<b>6. Old Product ID</b> <table border="1"><thead><tr><th colspan="2">Software / Firmware</th></tr><tr><th>Model</th><th>Revision</th></tr></thead><tbody><tr><td>0350120-001</td><td>1.20</td></tr></tbody></table>	Software / Firmware		Model	Revision	0350120-001	1.20
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<b>7. New CLEI Code</b> N/A	<b>8. Old CLEI Code</b> N/A												



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## 9. Associated Products or Changes Affected

0350120-001 Firmware File in the Alpha® FXM HP 650-24, 650-48, 1100, 2000 UPS

Alpha® FXM HP 650-24 UPS PN: 0170023-002, 0170023-201

Alpha® FXM HP 650-48 UPS PN: 0170023-101

Alpha® FXM HP 1100 UPS PN: 0170024-001, 0170024-002, 0170024-101

Alpha® FXM HP 2000 UPS PN: 0170022-001, 0170022-002, 0170022-101, 0170022-201

## 10. Drawing Number

0350120-001\_D\_FXM-HP\_README\_V1.30

## 11. Classification of Change

B

## 12. Reason for Classification

Product change which was made to incorporate improvements in the design that result in better operation, improved testing and maintenance, longer life, operational cost reduction, and addition of new features.

## 13. Reason for Change

Update improves battery over temperature protection and bulk charger mode.

## 14.1 Description of Change

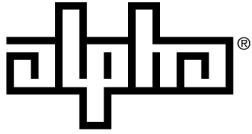
- If the battery temperature sensor is not plugged in, the Alpha® FXM HP UPS charges the batteries up to the safe voltage.
  - 52.8 VDC for FXM HP 650-48, FXM HP 1100, and FXM HP 2000 UPS
  - 26.4 VDC for FXM HP 650-24 UPS
- Bug fixes related to the battery charging algorithm in some edge cases in bulk mode were fixed.

## 14.2 Change Verification Procedures

Sign in to the Cordex® HP system controller and go to the **Modules** page to confirm that the firmware on the Alpha® FXM HP UPS module is version 1.30 or later.

## 15. Safety Notification

N/A



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<b>16. Material Affected</b> N/A	
<b>17. Documentation Affected</b> 0350120-001_D_FXM-HP_README_V1.30	
<b>18. Supplier Implementation Date</b> October 15, 2023	<b>19. Modification Completion Date</b> Customer to update firmware as maintenance window permits.
<b>20. Modification Location</b> Alpha factory implementation as a phase in and in field for devices already installed in the field.	
<b>21. Modification Cost</b> N/A	
<b>22. Location and Quantity of Equipment</b> N/A	
<b>23. Attachments</b> 0350120-001_D_FXM-HP_README_V1.30	
<b>24. Comments</b> The firmware file can be found at <a href="https://www.alpha.ca/support/support-main-menu/software-firmware-downloads">https://www.alpha.ca/support/support-main-menu/software-firmware-downloads</a> for download. Refer to the user documentation for information on updating the UPS device firmware.	

End of Product Change Notification