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Product Change Notification

PCN # 0470505-PCN

FXM HP 650-24, 650-48, 1100, and 2000 Firmware Version 1.20

| 1. Supplier Information Alpha Technologies, Ltd. 7700 Riverfront Gate, Burnaby, BC V5J 5M4 Canada | 1.2 Supplier Contact Info Contact: Daljit Hothi Product Manager 604 422 4490 Daljit.Hothi@Energys.com | | | | | | | | | | | | |
|--|--|--|-------|----------|-------------|------|--|---------------------|--|-------|----------|-------------|------|
| 2. Product Change Notification Number PCN # 0470505-PCN | 3. Issue Date of Change February 27, 2023 | | | | | | | | | | | | |
| 4. System Affected Major System Affected: FXM HP 650-24, 650-48, 1100, 2000 Subsystem Affected: N/A Hardware Affected: No Firmware Affected: Yes Software Affected: No | | | | | | | | | | | | | |
| 5. New Product ID <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 | 6. Old Product ID <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>1.10</td></tr></tbody></table> | Software / Firmware | | Model | Revision | 0350120-001 | 1.10 |
| Software / Firmware | | | | | | | | | | | | | |
| Model | Revision | | | | | | | | | | | | |
| 0350120-001 | 1.20 | | | | | | | | | | | | |
| Software / Firmware | | | | | | | | | | | | | |
| Model | Revision | | | | | | | | | | | | |
| 0350120-001 | 1.10 | | | | | | | | | | | | |
| 7. New CLEI Code N/A | 8. Old CLEI Code N/A | | | | | | | | | | | | |



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9. Associated Products or Changes Affected

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

FXM HP 650-24 PN: 0170023-002, 0170023-201

FXM HP 650-48 PN: 0170023-101

FXM HP 1100 PN: 0170024-001, 0170024-002, 0170024-101

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

10. Drawing Number

0350120-001_C_FXM-HP_README_V1.20

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 to improve charging batteries with low voltage, battery detection, over temperature protection, and transfer time.

14.1 Description of Change

- The battery charging algorithm is improved to charge deeply discharged, as well as batteries at low temperatures.
- Improved battery over voltage detection time.
- Improved battery presence detection.
- Battery fail alarm logging in case of an undetected battery bank.
- Battery over temperature protection improved, with charger shutdown at temperatures 50°C (122°F) and above.
- Increase the maximum battery charging voltage window from 56 Vdc max. to 57.6 Vdc max. for the 48 Vdc battery bus.
- Improved transfer time from line/boost/buck mode to inverter mode.



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| 14.2 Change Verification Procedures Sign in to the Cordex® CXC HP System Controller and go to the Modules page to confirm that the firmware on the FXM HP UPS module is version 1.20 or later. | |
| 15. Safety Notification N/A | |
| 16. Material Affected N/A | |
| 17. Documentation Affected 0350120-001_C_FXM-HP_README_V1.20 | |
| 18. Supplier Implementation Date April 3, 2023 | 19. Modification Completion Date Customer to update firmware as maintenance window permits. |
| 20. Modification Location EnerSys factory implementation as a phase in and in field for devices already installed in the field. | |
| 21. Modification Cost N/A | |
| 22. Location and Quantity of Equipment N/A | |
| 23. Attachments 0350120-001_C_FXM-HP_README_V1.20 | |
| 24. Comments The firmware file can be found at https://www.alpha.ca/support/support-main-menu/software-firmware-downloads for download. | |

End of Product Change Notification