

Version:

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UPS 15.1

Applicable Models:

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SRT5KXLI  
SRT5KXLT  
SRT5KXLT-IEC  
SRT5KRMXLI  
SRT5KRMXLT  
SRT5KRMXLT-IEC  
SRT6KXLI  
SRT6KXLT  
SRT6KXLT-IEC  
SRT6KRMXLI  
SRT6KRMXLT  
SRT6KRMXLT-IEC  
SRT5KRMXLW-TW  
SRT5KRMXLW-HW  
SMRT5KRMXLW-HW  
SRT6KXLTW  
DLRT5KRMXLI  
DLRT5KRMXLT  
SRT5KRMXLIM  
SRT6KRMXLIM  
SRT5KXLJ  
FJRT5KXLI  
DLRT5KRMXLJ  
HTRT5KRMXLJ  
FJRT5KRMXLJ  
NCRT5KRMXLJ

Compatibility:

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FUW Tool version 4.2.0 and above required to upgrade the UPS:

Web Link for downloading Latest FUW Tool and instructions to upgrade the UPS Firmware using FUW -  
<https://www.apc.com/us/en/faqs/index?page=content&id=FA279197>

Note: The Firmware Upgrade Wizard is the most reliable and preferred method of upgrading.

NMC SUMX v6.5 and above required to upgrade the UPS:

Web link for instructions to upgrade the UPS Firmware using NMC - <https://www.apc.com/us/en/faqs/FA170679/>

Note: if NMC SUMX Version is below 6.5 version, Below Web link helps in upgrading the APC NMC Card with latest NMC SUMX version.

Web Link for instructions to upgrade the firmware on an APC NMC Card - <https://www.apc.com/us/en/faqs/index?page=content&id=FA156047>

UPS firmware update compatibility:

(a) UPS 04.5 and above versions supports Auto XBP Firmware upgrade feature under BMC firmware mismatch condition.

Note: (1) UPS ID 1013 will not support firmware upgrade with UPS output ON feature and two step firmware upgrade process.

(2) when firmware upgrade is initiated the pop-up message "Communication Error" appears for few seconds and then "upgrade in progress" screen will appear and upgrade the firmware. This behaviour is observed while upgrading firmware from UPS\_02.9 to latest firmware.

Release Notes (UPS 15.1):

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SRT5KXLI, SRT5KXLT, SRT5KXLT-IEC, SRT5KRMXLI, SRT5KRMXLT, SRT5KRMXLT-IEC, SRT6KXLI, SRT6KXLT, SRT6KXLT-IEC, SRT6KRMXLI, SRT6KRMXLT, SRT6KRMXLT-IEC, SRT5KRMXLW-TW, SRT5KRMXLW-HW, SMRT5KRMXLW-HW, SRT6KXLTW, DLRT5KRMXLI, DLRT5KRMXLT, SRT5KRMXLIM, SRT6KRMXLIM:

1. Improved battery thermal detection.

Release Notes (UPS 15.0):

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SRT5KXLI, SRT5KXLT, SRT5KXLT-IEC, SRT5KRMXLI, SRT5KRMXLT, SRT5KRMXLT-IEC, SRT6KXLI, SRT6KXLT, SRT6KXLT-IEC, SRT6KRMXLI, SRT6KRMXLT, SRT6KRMXLT-IEC, SRT5KRMXLW-TW, SRT5KRMXLW-HW, SMRT5KRMXLW-HW, SRT6KXLTW, DLRT5KRMXLI, DLRT5KRMXLT, SRT5KRMXLIM, SRT6KRMXLIM:

1. Addressed timeout event while receiving the UPS firmware file using NMC under certain conditions. Web link shown below:

<https://www.apc.com/us/en/faqs/index?page=content&id=FA411525>

2. This release includes remediations for the security vulnerabilities listed as CVE-2202-0715 which, if compromised, may allow for potential unauthorized access and control of the device.

Change logs:

1. Function implemented to disable UPS firmware upgrades via NMC to mitigate potential risk of malicious UPS firmware being passed through this channel.
2. Enhanced UPS firmware code protection to mitigate the vulnerabilities of unauthorized extraction of confidential firmware.

Release Notes (UPS 05.1):

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SRT5KXLI, SRT5KXLT, SRT5KXLT-IEC, SRT5KRMXLI, SRT5KRMXLT, SRT5KRMXLT-IEC, SRT6KXLI, SRT6KXLT, SRT6KXLT-IEC, SRT6KRMXLI, SRT6KRMXLT, SRT6KRMXLT-IEC, SRT5KRMXLW-TW, SRT5KRMXLW-HW, SMRT5KRMXLW-HW, SRT6KXLTW, DLRT5KRMXLI, DLRT5KRMXLT, SRT5KRMXLIM, SRT6KRMXLIM, FJRT5KXLI:

1. Addressed erroneous 'Battery Pack Disconnected' and 'Battery Pack Disconnected Cleared' events in the NMC log.
2. Improved algorithm to detect Inverter Hardware Circuit event.
3. Improved capability to detect presence of internal battery in 'battery standby' state.

SRT5KXLJ, FJRT5KRMXLJ:

1. Addressed erroneous 'Battery Pack Disconnected' and 'Battery Pack Disconnected Cleared' events in the NMC log.
2. Improved algorithm to detect Inverter Hardware Circuit event.
3. Improved capability to detect presence of internal battery in 'battery standby' state.
4. Addressed false detection of 'Check Battery Cable' alarm under certain conditions.

5. Improved battery charger profiling.
6. Adjusted UPS power OFF control by increasing power button hold time to 5 seconds.
7. Changed wording for certain LCD status/warning messages.
8. Addressed 'Last Battery Transfer' reporting status of "Unknown" under certain conditions.

Release Notes (UPS 05.0):

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SRT5KXLI, SRT5KXLT, SRT5KXLT-IEC, SRT5KRMXLI, SRT5KRMXLT, SRT5KRMXLT-IEC, SRT6KXLI, SRT6KXLT, SRT6KXLT-IEC, SRT6KRMXLI, SRT6KRMXLT, SRT6KRMXLT-IEC, SRT5KRMXLW-TW, SRT5KRMXLW-HW, SMRT5KRMXLW-HW, SRT6KXLTW, DLRT5KRMXLI, DLRT5KRMXLT, SRT5KRMXLIM, SRT6KRMXLIM:

1. Added optional PDU model SRT015 for SMRT5KRMXLW-HW SKU.

Release Notes (UPS 04.8):

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SRT5KXLI, SRT5KXLT, SRT5KXLT-IEC, SRT5KRMXLI, SRT5KRMXLT, SRT5KRMXLT-IEC, SRT6KXLI, SRT6KXLT, SRT6KXLT-IEC, SRT6KRMXLI, SRT6KRMXLT, SRT6KRMXLT-IEC, SRT5KRMXLW-TW, SRT5KRMXLW-HW, SRT6KXLTW, DLRT5KRMXLI, DLRT5KRMXLT, SRT5KRMXLIM, SRT6KRMXLIM:

1. Addressed false detection of 'Check Battery Cable' alarm under certain conditions.

Release notes (UPS 04.7):

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SRT5KXLI, SRT5KXLT, SRT5KXLT-IEC, SRT5KRMXLI, SRT5KRMXLT, SRT5KRMXLT-IEC, SRT6KXLI, SRT6KXLT, SRT6KXLT-IEC, SRT6KRMXLI, SRT6KRMXLT, SRT6KRMXLT-IEC, SRT5KRMXLW-TW, SRT5KRMXLW-HW, SRT6KXLTW, DLRT5KRMXLI, DLRT5KRMXLT, SRT5KRMXLIM, SRT6KRMXLIM:

1. Improved battery charger profiling.
2. Enhanced unit output capacity with respect to output voltage selection for Cheetah XLT SKUs.
3. Adjusted UPS power OFF control by increasing power button hold time to 5 seconds.
4. Changed wording for certain LCD status/warning messages.
5. Addressed 'Last Battery Transfer' reporting status of "Unknown" under certain conditions.

Release notes (UPS 04.5):

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SRT5KXLJ, DLRT5KRMXLJ, HTRT5KRMXLJ, FJRT5KRMXLJ, NCRT5KRMXLJ:

1. Support extended temperature ranges for Marine SKUs.
2. Improved sick and bad battery detection logic.
3. Improved output relay weld detection logic.
4. Output power enhanced for 5kVA XLT SKUs.
5. Updated default language setting for Japanese SKUs to be Japanese.
6. Improved DC Bus under voltage detection.
7. Improved inverter startup logic.
8. Improved system handling during battery over temperature condition.

Release Notes (UPS 04.1):

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SRT5KXLI, SRT5KXLT, SRT5KXLT-IEC, SRT5KRMXLI, SRT5KRMXLT, SRT5KRMXLT-IEC, SRT6KXLI, SRT6KXLT, SRT6KXLT-IEC, SRT6KRMXLI, SRT6KRMXLT, SRT6KRMXLT-IEC, SRT5KRMXLW-TW, SRT5KRMXLW-HW, SRT6KXLTW, DLRT5KRMXLI, DLRT5KRMXLT, SRT5KRMXLIM, SRT6KRMXLIM:

1. Improved battery charger response time during rapid ambient temperature changes.
2. Updated battery replacement algorithm to handle batteries whose performance exceeds typical.
3. Improved bypass transfer response time at overloads.

Release Notes (UPS 04.0):

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SRT5KXLI, SRT5KXLT, SRT5KXLT-IEC, SRT5KRMXLI, SRT5KRMXLT, SRT5KRMXLT-IEC, SRT6KXLI, SRT6KXLT, SRT6KXLT-IEC, SRT6KRMXLI, SRT6KRMXLT, SRT6KRMXLT-IEC, SRT5KRMXLW-TW, SRT5KRMXLW-HW, SRT6KXLTW, DLRT5KRMXLI, DLRT5KRMXLT:

1. Improved reliability of battery pack communication.
2. Improved battery charger performance.
3. Improved display messages during Firmware Upgrade process.
4. Improved EEPROM operations.
5. Added support for field replaceable PDU.
6. Improved energy metering in on battery state.
7. Improved system behavior at high battery temperature.
8. Improved display for output power reading.
9. Improved output frequency in on battery state.

Release Notes (UPS 02.6):

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SRT5KXLI, SRT5KXLT, SRT5KXLT-IEC, SRT5KRMXLI, SRT5KRMXLT, SRT5KRMXLT-IEC, SRT6KXLI, SRT6KXLT, SRT6KXLT-IEC, SRT6KRMXLI, SRT6KRMXLT, SRT6KRMXLT-IEC, SRT5KRMXLW-TW, SRT5KRMXLW-HW, SRT6KXLTW, DLRT5KRMXLI, DLRT5KRMXLT:

1. Update the run time prediction to include capacity of external battery packs.