

Version: UPS 10.0  
File Name: SRTL1063UPS\_10-0.enc  
SHA256 Hash: 0ddc902b1eb5d8482b5a13f2324b167b0c17671630684c0a5f392db7e447bb77  
Applicable Models:  
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ID 1063 with SmartConnect SKU.  
SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:  
1. Update firmware version to UPS 10.0

Version: UPS 05.3  
File Name: SRTL1063UPS\_05-3.enc  
SHA256 Hash: 0611d066e445b365a8b0cb97475da197368a183018554454928ad9fa7c732b66  
Applicable Models:  
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ID 1063 with SmartConnect SKU.  
SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:  
1. Improve output continuity and system resilience by transferring to bypass mode, rather than battery mode, during DC bus over-voltage events.  
2. Enhanced overload capability and performance by improving the detection logic.  
3. Improve inverter start-up sequence and output relay switching to reduce output voltage transients during power mode transitions.  
4. Refined output voltage monitoring logic with auto-adjustment features to ensure consistent over-voltage detection across various operating conditions for false alarm of P02.  
5. Improved relay welding detection reliability for solving false alarms of P08.

Version: UPS 05.1  
File Name: SRTL1063UPS\_05-1.enc  
SHA256 Hash: 255e03ef8afd98ad71a424692db46f19fee624494f692310455ddd84025d210c  
Applicable Models:  
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ID 1063 with SmartConnect SKU.  
SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:  
1. Improve load balancing for linear and non-linear types of loads, to improve handling of P.11, P.16, and P.19 alarms.  
2. Do not allow UPS output to be turned on when UPS reports critical power system errors.  
3. Force battery to sleep when input voltage is brown out for a long period of time.

Version: UPS 05.0  
File Name: SRTL1063UPS\_05-0.enc  
SHA256 Hash: 0eaf780f93cdad8137a0c6df0e16cb358bcc47f6529eacfc33e86e3bddf3d049  
Applicable Models:  
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ID 1063 with SmartConnect SKU.  
SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:  
1. Support multiple LCD panel versions for screen rotation functionality.  
2. Lower the sensitivity of internal detection threshold for transferring from on-line to on-battery state.  
This prevents NMC from sending out a notification email about state transition.  
3. Enhance output voltage detection for P.02 output overvoltage issue.  
4. Enhance LCD communication mechanism for D.04 internal communication issue.

Version: UPS 04.9  
File Name: SRTL1063UPS\_04-9.enc  
SHA256 Hash: 5fb0f0ee2707132001e32770a5c2e5e94f266c684ace6ca368639f12028329b2  
Applicable Models:  
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ID 1063 with SmartConnect SKU.  
SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:  
1. Improve PFC sagging current when input voltage is larger than 240V to improve handling of P.16 & P.19 alarms.  
2. Reduce input peak current at on-line transient moment when input voltage is larger than 240V to improve handling of P.16 & P.19 alarms.  
3. When a fault is detected during self-test, prevent turning on PFC and transfer to failure bypass mode.  
4. Force battery to sleep while UPS is in fault to avoid consuming battery energy.  
5. Adjust the fan control algorithm for reducing noise.  
6. Improve battery pack communication for resolving "Incompatible Battery Pack" issue.

Version: UPS 04.8  
Applicable Models:

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ID 1063 with SmartConnect SKU.

SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:

1. Improve DC/DC discharging control algorithm for light load condition.
2. Optimize fan speed control for light load condition.
3. Improve UPS behavior when inverter shorts into AC mains.
4. Enhance UPS power-off mechanism in stand-by mode without AC utility to prevent battery drain.
5. Improve charger control algorithm to keep charger working when multiple battery packs are connected, and some batteries exhibit protected behavior.
6. If AC utility is unexpectedly turned off during firmware upgrade with output on process, ensure UPS output is automatically turned on after firmware upgrade and AC utility recovered.
7. Improve output auto-restart function after waking up from UPS shutdown.
8. Improve self-test function when battery pack protection is abnormally triggered during the test.

Version: UPS 04.7

Applicable Models:

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ID 1063 with SmartConnect SKU.

SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:

1. Improve charger control by revising charger turn on sequence to minimize interference between 2-stage DC-DC converters.
2. Improve charger control by limiting maximum charging current compensation.
3. Improve charger control by turning off pre-charge subsystem after charger is on.
4. Improve robustness for bypass to on-line and bypass to on-battery transfers.
5. Add a protection mechanism for battery fuse open.
6. Improve firmware upgrade progress to have continuous percentage indication on LCD panel.
7. Log continuous "Incompatible battery pack" event only once instead of multiple times.

Version: UPS 04.3

Applicable Models:

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ID 1063 with SmartConnect SKU.

SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:

1. Enhance back-feed relay weld detection to resolve P.05 issue when UPS transits to on-battery state and input voltage is floating.
2. Improve charger control for solving charger B.04 issue.
3. If XBP ID is not correctly set, UPS will report it as an alarm with continuous beep and LCD panel background in red color.
4. Correctly display battery manufacture and installation date information on the LCD.

Version: UPS 04.1

Applicable Models:

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ID 1063 with SmartConnect SKU.

SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:

1. Improve charger control for solving charger B.04 issue.
2. Show "Incompatible battery pack" message as an event instead of an alarm.
3. Improve UI panel display of battery temperature units.

Version: UPS 04.0

Applicable Models:

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ID 1063 with SmartConnect SKU.

SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:

1. Improve firmware upgrading skip function to speed up upgrading time.
2. Enhance firmware upgrading recovery mechanism to avoid LCD show D.04 after upgraded.
3. Improve frequency sweep sensitivity for generator input.
4. Keep the UPS output off if UPS abnormal shutdown.
5. Discreetly report event 186 about charger subsystem.

Version: UPS 03.0

Applicable Models:

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ID 1063 with SmartConnect SKU.

SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC, SRTL3KRM1UC, SRTL2K2RM1UC

Change logs:

1. Implemented 120V model (SRTL3KRM1UC/SRTL2K2RM1UC) on this version. The 120V model should not downgrade before this version.

Version: UPS 02.4

Applicable Models:

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ID 1063 with SmartConnect SKU.

SRTL3KRM1UWC, SRTL3KRM1UIC, SRTL2K2RM1UWC, SRTL2K2RM1UIC

Change logs:

1. Implemented 2.2KVA model on this version. The 2.2kVA model should not downgrade before this version.
2. Implemented the battery current path open detection and UI showed as B.08.
3. Improved the SmartConnect TLS from Mocana to Mbed TLS.

Version: UPS 01.3

Applicable Models:

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ID 1063 with SmartConnect SKU.

SRTL3KRM1UWC, SRTL3KRM1UIC

Change logs:

1. Initial Release.

Compatibility:

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PowerChute Business Edition v10.0.2

PowerChute Serial Shutdown v1.0

FUW (Firmware Upgrade Wizard) Tool v4.3.8