

# Panduit UPS

UPS Network Management Card Release Notes v1.5.2

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# General

## Tested Application Compatibility

<i>Application</i>	<i>Support</i>	<i>Known Limitations</i>
mPower	v1.0.1	
SmartZone Cloud	v3.3.1.48	

## Released Production Files

### Product Upgrade

#### *Image Information*

Filename: ups-nmc-v1.5.2-release.bin

Version: v1.5.2

CRC32: 7CCBA9F0

SHA256: 595b445f8a6131438f357d21ffdb1e2b0b0f50045b7112c91c28c140a6bc7af4

Filesize: 1693422 bytes

# New Features

## New Features added in version v1.5.2

- 1-3kVA Lithium double conversion North American UPS support
  - 3kVA Lithium 208V North American UPS support
  - 5-10kVA Lithium up to 8 EBP support (previously 4)
    - Requires UPS version C021 M021 and above
  - Enable the UPS battery disconnect alarm for initial setup
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# Resolved Issues

## Issues resolved by version v1.5.2

Issue ID	Title
UNMC-928	NMC V1.5.1 WebUI does not appear to work on 5-10kVA VRLA systems. (Comm Error).

## Issues resolved by version v1.5.1

Issue ID	Title
UNMC-892	Help / Support / User Guide... link for UPS NMC shows FMPS
UNMC-899	"secondsOnBattery" CLI read seems to increment more slowly than actual seconds passing.
UNMC-913	outletGroupActive state does not change when outlet group is turned on or off.

## Issues resolved by version v1.5.0

Issue ID	Title
UNMC-526	The web page reloads "twice" on first login causing Direct Connect and HTTPS in general to be slow
UNMC-533	Typo on the 'Upload Firmware' dialog
UNMC-560	Setting Smartloads up to communicate with SSH server simulator and using 'Test Connection' functions hang "In Process" (or fails) unless settings Saved first
UNMC-616	engineboot max values is set to 63 and should be 2147483647
UNMC-658	Changing Battery Install Date from WebUI did not change date on UPS Display. Dates between Display and WebUI do not match.
UNMC-686	WebUI and Modbus Do Not Show the Same Battery Count
UNMC-696	Extra outlet groups appear on dashboard and control.
UNMC-702	SNMP v3: AES-192 and AES-256 are not actually supported on UPS
UNMC-760	5-10kVA, 10-20kVA Changing Bypass Upper and Lower limit voltages reverts values to values not matching test case, or unexpected values may be accepted.
UNMC-786	Timezone settings are incorrect for GMT & Christmas Island
UNMC-809	Remote syslog can produce illegal characters in APP-NAME
UNMC-858	Add support for 1-3kVA Li-DC UPS
UNMC-867	Need to support 8 EBPs in the LI 5/6/10 LI line
UNMC-869	A user is locked out before maximum retries.
UNMC-874	Memory leak when walking alarm table in SNMP
UNMC-885	Wrong description on cfgOutputMode in MIB file.
UNMC-887	Discharge current is off by a factor of 2 for 5-10k Li units
UNMC-890	UPS Output Mode can't be read or set via SNMP

# Outstanding Issues

## New Issues

The following reported problems have been found since the previous release and are still outstanding in this release.

Issue ID	Title	Version	Status

## Existing Issues

The following reported problems were found prior to the previous release and are still outstanding.

Issue ID	Title	Version	Status
UNMC-244	Need to add some type of filtering to the environmental sensors.	v1.0.6	Deferred
UNMC-249	Multiple SNMP v3 users can be created with the same user name	v1.0.5	Deferred
UNMC-297	Need to distinguish between "ECO Mode" and "ECO on Bypass"	v1.0.6	Deferred
UNMC-303	Startup state of outlets always defaults to ON no matter "outletGroupStateOnStartup"	v1.0.6	Deferred
UNMC-405	cfgOutputPower does not change from default 600	v1.1.1	Deferred
UNMC-479	NMC sends out email with "0.0.0.0" address.	v1.1.3	Deferred
UNMC-515	Li-Li : selecting GEN mode from WebUI does not put the unit in to GEN mode on initial boot. Once the unit is put in to GEN mode through modbus (Modpoll), then the WebUI allows the unit to set between NOR and GEN modes.	v1.1.3	Deferred
UNMC-519	Syslog time is coming over in UTC not local time. This is inconsistent with other devices.	v1.1.3	Deferred
UNMC-539	Missing Environmental Sensors showing data Value, Thresholds page showing disconnected sensors / values	v1.2.0	Deferred
UNMC-547	NMC for 1-3kVA: Incorrect Input Current through CLI/SNMP. Input Power is likely not measured in these units, so the CLI/SNMP reading is also static.	v1.1.3	Deferred
UNMC-561	'Battery Temperature' is in Celsius in the downloaded data log CSV file when web ui is set to Fahrenheit.	v1.2.1	Deferred
UNMC-568	5-10kVA - When unit is in Bypass and input voltage is abnormal (output disabled), WebUI shows Normal power flow diagram, no alarms.	v1.2.2	Deferred
UNMC-576	10-20kVA 3P Cannot Enable/Disable Alarm Buzzer through WebUI. Status changes on WebUI when Enabled/Disabled through LCD however.	v1.2.2	Deferred

UNMC-577	10-20kVA Input Power through CLI / SNMP not measured. (Always reads as "1800")	v1.2.2	Deferred
UNMC-581	NMC 5-10kVA -- Timed and Full Discharge Manual Battery Tests as set on NMC only lasted about 15 seconds.	v1.2.2	Deferred
UNMC-583	NMC 5-10kVA Enabling/Disabling audible alarm from the LCD did NOT update the status on the WebUI	v1.2.2	Deferred
UNMC-586	Event and Data log file cannot be downloaded using MacOS Safari browser	v1.2.2	Deferred
UNMC-601	Configuration upload does not show completion with WiFi network	v1.2.4	Deferred
UNMC-621	SMTP retry and time interval settings not working	v1.3.0	Deferred
UNMC-648	When DHCP or DHCPv6 goes from providing more than 0 NTP servers to providing zero NTP servers, the previous DHCP provided NTP servers are left in use	v1.3.0	Deferred
UNMC-650	Autoconfigured IPv6 address is not unlearned when configuration settings are changed to Static/Blank address - IPv6 must be disabled and then re-enabled to unlearn address	v1.3.0	Deferred
UNMC-656	3P Parallel Setup - Setting a unit in to Bypass through WebUI that is connected in Parallel disables output (May only affect : LCD v021B000, M v031B000, INV v021B000)	v1.3.0	Deferred
UNMC-657	Changing Output voltage from WebUI requires INV to be off (Bypass Mode) first.	v1.3.0	Deferred
UNMC-662	Power Flow: does not switch from None to Bypass when input power is restored	v1.3.0	Deferred
UNMC-697	Event "WebUI logged out due to inactivity" is not used when a WebUI user is logged out due to inactivity	v1.3.1	Deferred
UNMC-698	Setting web session timeout does not affect current session	v1.3.1	Deferred
UNMC-699	If a web user gets kicked out, there is no logout message in event log	v1.3.1	Deferred
UNMC-737	1-3 kVA Li-LI - Entering Shutdown mode shows Input/Output Bad alarms on WebUI. Powerflow not representative of Battery charging.	v1.3.1	Deferred
UNMC-738	Ethernet PHY not responding (registers all 0xFF) after 1 day 21 hrs.	v1.4.0	Deferred
UNMC-741	EM HID card triggers Unauthorized PIN Code event with an unknown number	v1.4.0	Deferred
UNMC-746	v1.4.0 Clicking Support > Download Mib command opens Mib in browser window - does not auto-download .mib file as in previous versions (1.3.1, etc)	v1.4.0	Deferred
UNMC-757	Changing Output Voltage from WebUI does not hold value on Li NA model.	v1.4.0	Deferred
UNMC-761	3P NMC V1.4.0 Selecting Output Voltage on WebUI does not change the Output Voltage.	v1.4.0	Deferred
UNMC-763	WiFi IPv6 address not generated when Enabling IPv6 (autoconfigure)	v1.4.0	Deferred

UNMC-764	Spot, Rope, Dry Contact, and Door Sensor Show Critical Upon Initially Adding	v1.4.0	Deferred
UNMC-765	Setting Sensor Temperature Value Fails in MIB Browser for Fahrenheit Units	v1.4.0	Deferred
UNMC-767	Event and Alarm Severity Search is not working at all (text or number entry)	v1.4.0	Deferred
UNMC-769	No Options Displayed for Dry Contact and Door Sensor Alarm Level, Alarm State(door) on Thresholds Page	v1.4.0	Deferred
UNMC-774	WebUI takes a very long time to load (more than 5 mins) after a 'Wi-Fi Network Configuration'	v1.4.0	Deferred
UNMC-778	Unauthorized pin code event & trap after valid pin code entry in Keypad only mode	v1.4.1	Deferred
UNMC-780	'Data Log' doesn't capture the battery / temperature	v1.4.1	Deferred
UNMC-803	Setting the Beacon to "Locate" must override the alarm state	v1.4.2	Deferred
UNMC-811	10-20kVA Selecting GEN mode from WebUI shows GEN mode as operating mode on WebUI - but 3Phase units do not have a GEN mode. (No state change from NOR mode.)	v1.4.1	Deferred
UNMC-816	Battery Test Status Field does not update after manual battery test	v1.4.2	Deferred
UNMC-821	If the UPS is in CF mode, and then the INV is disabled, the outputs are disabled as expected - however there is no indication of this state on the WebUI except Voltage 0V	v1.4.2	Deferred
UNMC-847	WebUI uses default private key (non-unique) until custom key is loaded	v1.4.2	Deferred
UNMC-876	CF and ECO output mode are shown for Line Interactive UPS.	v1.4.3	Deferred
UNMC-912	Power to outlets do not follow parameters of "Scheduled Shutdown"	v1.5.0	Deferred
UNMC-914	SPOT sensor generates critical(6) trap then a trap clear when water is added while the alarm is DISABLED	v1.5.0	Deferred
UNMC-918	1K NA VRLA does not display bypass voltage limit alarm on Web UI	v1.5.0	Deferred
UNMC-919	SNMP set of card user start time and date has issue running from script	v1.5.1	Deferred
UNMC-924	[10-20kVA] 'Share battery' setting cannot be enabled from web UI.	v1.5.1	Deferred



**UNMC-244** Need to add some type of filtering to the environmental sensors.

The sensor alarm may sometimes trigger and clears itself.

*Workaround:* None

**UNMC-249** Multiple SNMP v3 users can be created with the same user name

If there are more than one SNMPv3 entry with the same username, the user may not be able to perform SNMP requests.

*Workaround:* Use unique SNMPv3 usernames.

**UNMC-297** Need to distinguish between "ECO Mode" and "ECO on Bypass"

When exiting bypass mode, the UPS may not go back to the previous state.

*Workaround:* None

**UNMC-303** Startup state of outlets always defaults to ON no matter "outletGroupStateOnStartup"

When outletGroupStateOnStartup is set to 'off' from SNMP and the UPS is restarted, the outlet will be turned on.

*Workaround:* None

**UNMC-405** cfgOutputPower does not change from default 600

cfgOutputPower always reports 600W over SNMP.

*Workaround:* None

**UNMC-479** NMC sends out email with "0.0.0.0" address.

The NMC may send an event email with an IP address of 0.0.0.0 in the email subject line.

*Workaround:* None

**UNMC-515** Li-LI : selecting GEN mode from WebUI does not put the unit in to GEN mode on initial boot. Once the unit is put in to GEN mode through modbus (Modpoll), then the WebUI allows the unit to set between NOR and GEN modes.

When GEN mode selected from the web UI, the line interactive UPS may stay in normal mode.

*Workaround:* Use the display to change to GEN mode.

**UNMC-519** Syslog time is coming over in UTC not local time. This is inconsistent with other devices.

Syslog time is coming over in UTC not local time.

*Workaround:* None

**UNMC-539** Missing Environmental Sensors showing data Value, Thresholds page showing disconnected sensors / values

When the environment sensors are removed, the web UI may display the value of the sensor and show the status as 'OK' instead of 'MISSING.'

*Workaround:* None

**UNMC-547** NMC for 1-3kVA: Incorrect Input Current through CLI/SNMP. Input Power is likely not measured in these units, so the CLI/SNMP reading is also static.

The input current for 1-3kVA UPS is not correctly reported over SNMP and CLI.

*Workaround:* None

**UNMC-561** 'Battery Temperature' is in Celsius in the downloaded data log CSV file when web ui is set to Fahrenheit.

The downloaded data log displays the battery temperature in Celsius even though the system is set to display the temperature in Fahrenheit.

*Workaround:* None

**UNMC-568** 5-10kVA - When unit is in Bypass and input voltage is abnormal (output disabled), WebUI shows Normal power flow diagram, no alarms.

When the UPS is set to bypass mode and the voltage goes below the normal range, the NMC web UI shows the normal power flow diagram.

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*Workaround:* None

- UNMC-576** 10-20kVA 3P Cannot Enable/Disable Alarm Buzzer through WebUI. Status changes on WebUI when Enabled/Disabled through LCD however.

10-20kVA 3P Cannot Enable/Disable Alarm Buzzer through Web UI.

*Workaround:* None, the UPS core does not support this mode.

- UNMC-577** 10-20kVA Input Power through CLI / SNMP not measured. (Always reads as "1800")

The input active power and apparent power is not reported correctly on 10-20kVA UPS over SNMP and CLI.

*Workaround:* None

- UNMC-581** NMC 5-10kVA -- Timed and Full Discharge Manual Battery Tests as set on NMC only lasted about 15 seconds.

Timed and full discharge manual battery does not test given timed amount or fully.

*Workaround:* None

- UNMC-583** NMC 5-10kVA Enabling/Disabling audible alarm from the LCD did NOT update the status on the WebUI

When the audible alarm setting is changed on the display, it does not get reflected to the NMC Web UI.

*Workaround:* None

- UNMC-586** Event and Data log file cannot be downloaded using MacOS Safari browser

Clicking Event and Data log download button does not respond when MacOS Safari browser is used.

*Workaround:* Use other browser such as Chrome, Firefox or Microsoft Edge.

- UNMC-601** Configuration upload does not show completion with WiFi network

When the NMC web UI is connected via Wi-Fi network, uploading the configuration does not show it is uploaded even though the configuration upload is complete.

*Workaround:* None

**UNMC-621** SMTP retry and time interval settings not working

When the SMTP server is not accessible, the email is sent only once after the time interval set regardless of the number of retries set on the configuration.

*Workaround:* None

**UNMC-648** When DHCP or DHCPv6 goes from providing more than 0 NTP servers to providing zero NTP servers, the previous DHCP provided NTP servers are left in use

When DHCP stops providing NTP server after providing 1 or more, the UPS NMC continuously uses previously given NTP server.

*Workaround:* None

**UNMC-650** Autoconfigured IPv6 address is not unlearned when configuration settings are changed to Static/Blank address - IPv6 must be disabled and then re-enabled to unlearn address

When the UPS NMC is connected to a stateless IPv6 network, then deleting the static IPv6 address by setting it to blank does not clear its IPv6 address.

*Workaround:* Disable and reenale IPv6

**UNMC-656** 3P Parallel Setup - Setting a unit in to Bypass through WebUI that is connected in Parallel disables output (May only affect : LCD v021B000, M v031B000, INV v021B000)

When the UPS is running in parallel mode and set to bypass mode, the output is disabled. This only affects 10-20k UPS version M031IR001I021 and prior versions.

*Workaround:* None

**UNMC-657** Changing Output voltage from WebUI requires INV to be off (Bypass Mode) first.

Changing output voltage requires the inverter to be turned off. The NMC does not alert this message and the output voltage does not change.

*Workaround:* Turn the inverter off by setting the UPS in bypass mode before changing the output voltage

**UNMC-662** Power Flow: does not switch from None to Bypass when input power is restored

When the UPS is in battery mode and set to bypass from the UPS display, the output power is disabled. Applying the input power switches the UPS to the normal mode instead of previously running bypass mode.

*Workaround:* None

**UNMC-697** Event "WebUI logged out due to inactivity" is not used when a WebUI user is logged out due to inactivity

When a user logged out from Web UI due to inactivity, this log out event is not logged.

*Workaround:* None

**UNMC-698** Setting web session timeout does not affect current session

When the session timeout value is updated, the current session does not use the updated value.

*Workaround:* None

**UNMC-699** If a web user gets kicked out, there is no logout message in event log

The event log does not contain log out message when a user is logged out due to maximum concurrent user logged in.

*Workaround:* None

**UNMC-737** 1-3 kVA Li-Li - Entering Shutdown mode shows Input/Output Bad alarms on WebUI. Powerflow not representative of Battery charging.

When 1-3k Li NA models are set to shutdown mode, the NMC Web UI will show an input source error and battery not charging even though the input is good, and the battery is charging.

*Workaround:* None

**UNMC-738** Ethernet PHY not responding (registers all 0xFF) after 1 day 21 hrs.

The UPS NMC may become unresponsive over Ethernet. When this occurs the status LED on the Ethernet port remains not lit. Reboot the NMC to recover Ethernet functionality.

*Workaround:* None

**UNMC-741** EM HID card triggers Unauthorized PIN Code event with an unknown number

When the security handle authentication mode is set to 'RFID only' mode, there may be an unauthorized PIN event logged.

*Workaround:* None

**UNMC-746** v1.4.0 Clicking Support > Download Mib command opens Mib in browser window - does not auto-download .mib file as in previous versions (1.3.1, etc)

Clicking Download SNMP MIB from the support page does not open a browser download dialog, and it displays the MIB file content on the browser.

*Workaround:* Right mouse button click on the browser, then click save as to save the MIB file.

**UNMC-757** Changing Output Voltage from WebUI does not hold value on Li NA model.

Output voltage settings cannot be changed on 1-3k Li NA models.

*Workaround:* Use the UPS display to change output voltage.

**UNMC-761** 3P NMC V1.4.0 Selecting Output Voltage on WebUI does not change the Output Voltage.

Output voltage settings cannot be changed on 3 phase UPS models.

*Workaround:* Use the UPS display to change output voltage.

**UNMC-763** WiFi IPv6 address not generated when Enabling IPv6 (autoconfigure)

The NMC Wi-Fi does not acquire IPv6 address.

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*Workaround:* None

**UNMC-764** Spot, Rope, Dry Contact, and Door Sensor Show Critical Upon Initially Adding

When Spot, Rope, Dry contact, or Door sensors are connected to the NMC. Critical alarms are generated and cleared on the event log.

*Workaround:* None

**UNMC-765** Setting Sensor Temperature Value Fails in MIB Browser for Fahrenheit Units

Setting temperature threshold values via SNMP may set correct values when the unit is in Fahrenheit.

*Workaround:* Use Web UI to set threshold values.

**UNMC-767** Event and Alarm Severity Search is not working at all (text or number entry)

Typing word search on the Event log severity does not work.

*Workaround:* None

**UNMC-769** No Options Displayed for Dry Contact and Door Sensor Alarm Level, Alarm State(door) on Thresholds Page

No Alarm levels can be set for Dry Contact and Door Sensor Alarm from the Web UI.

*Workaround:* None

**UNMC-774** WebUI takes a very long time to load (more than 5 mins) after a 'Wi-Fi Network Configuration'

When the Wi-Fi configuration is set to WPA2 Enterprise with server certificate verification, the first page load may take a long time.

*Workaround:* None

**UNMC-778** Unauthorized pin code event & trap after valid pin code entry in Keypad only mode

The NMC may log that the handle was accessed by a non-authorized PIN after the correct PIN entry and auto-lock event.

*Workaround: None*

**UNMC-780** 'Data Log' doesn't capture the battery / temperature

The battery temperature reading is missing from the data log.

*Workaround: None*

**UNMC-803** Setting the Beacon to "Locate" must override the alarm state

When locating the security handle with the "Locate" function, the security handle does not blink the locate color in an alarm state.

*Workaround: None*

**UNMC-811** 10-20kVA Selecting GEN mode from WebUI shows GEN mode as operating mode on WebUI - but 3Phase units do not have a GEN mode. (No state change from NOR mode.)

If the UPS is in CF mode, and then the INV is disabled, the outputs are disabled as expected - however there is no indication of this state on the WebUI except Voltage 0V

*Workaround: None*

**UNMC-816** Battery Test Status Field does not update after manual battery test

When a manual battery test is run from the UPS display or web UI, the last test status may not show updated message.

*Workaround: None*

**UNMC-821** If the UPS is in CF mode, and then the INV is disabled, the outputs are disabled as expected - however there is no indication of this state on the WebUI except Voltage 0V

If the UPS is in CF mode, and then the INV is disabled, the outputs are disabled as expected - however there is no indication of this state on the WebUI except Voltage 0Vv

*Workaround: None*

**UNMC-876** CF and ECO output mode are shown for Line Interactive UPS.

CF and ECO output mode are shown for Line Interactive UPS.

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*Workaround:* None. The UPS does not support these modes.

**UNMC-912** Power to outlets do not follow parameters of "Scheduled Shutdown"

Power to outlets do not follow parameters of "Scheduled Shutdown"

*Workaround:* None

**UNMC-914** SPOT sensor generates critical(6) trap then a trap clear when water is added while the alarm is DISABLED

The spot sensor will always generate a critical when the sensor comes in contact with water, even if the sensor's alarm is disabled.

*Workaround:* None. The trap will post and then clear.

**UNMC-918** 1K NA VRLA does not display bypass voltage limit alarm on Web UI

Then U01N11V does not display bypass voltage limit alarm on Web UI.

*Workaround:* None

**UNMC-919** SNMP set of card user start time and date has issue running from script

The format for setting the "start time" on the access control users is different than the format for reading the "start time" on the SNMP format.

*Workaround:* Configure the temporary SNMP user through the WebUI.

**UNMC-924** [10-20kVA] 'Share battery' setting cannot be enabled from web UI.

The "Share battery" setting can be disabled from the Web UI, but it cannot be enabled from the Web UI.

*Workaround:* Enabled the setting from the LCD screen.

# Release History

Revision	Date	Reason for Change
1.5.2	October 3, 2024	Maintenance release
1.4.2	January 11, 2024	Security handle support. 5-10kVA Li UPS support
1.3.1	March 31, 2023	Maintenance release
1.2.4	October 14, 2022	Limited release for 1-3k early build. SN workaround fix
1.2.2	October 14, 2022	Bug fixes and Wi-Fi Network feature
1.1.3	May 18, 2022	Shutdown/Bypass action menu fix
1.1.2	March 24, 2022	Initial Release