

# Smart-UPS SCL with NMC Series Firmware Release Notes

## Revision Information:

Rev.	Date	Remark
1.0	6-Feb-2024	Initial Version.
2.0	23-Apr-2024	Update format.
2.1	24-Apr-2024	Add SCL with NMC series SKUs. UPS 15.5 firmware revision for ID1029. UPS 16.5 firmware revision for ID1048.
2.2	24-May-2024	Update Release Information Format.

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Introduction

These release notes describe the version numbers that are applicable to UPS models that correspond with the relevant firmware. These models are SCL with NMC series which includes ID1029 and ID1048. The applicable SKUs are listed in their respective section.

## Firmware Revisions for ID 1048 Series

### Firmware Revision: UPS 16.5

ID Number	Firmware Revision
1048	UPS 16.5
Applicable SKUs	
SCL500RM1UNC, SCL500RMI1UNC.  <b>Note:</b> This revision provides stronger network data security protection via the below mechanisms to prevent malicious firmware from being upgraded to the UPS through communication interface ports.  <b>Note2:</b> The following security vulnerabilities have been addressed since SCL ID1048 rev UPS 16.1:  - <a href="#">CVE-2022-22805</a>  - <a href="#">CVE-2022-22806</a>  - <a href="#">CVE-2022-0715</a>	
Change Logs	
1. The mechanism of firmware signing adds to the code in order to protect the UPS from malicious firmware spoofs.  <b>Note3:</b> The Smart -UPS Firmware Upgrade Wizard tool always includes the latest firmware and helps you to upgrade to the UPS code. For more information on the tool, see <a href="#">FA279197</a> .	

### Firmware Revision: UPS 16.1

ID Number	Firmware Revision
1048	Initial Released Version: UPS 16.1
Applicable SKUs	
SCL500RM1UNC, SCL500RMI1UNC.	
Change Logs	
1. Initial Released.	

## Firmware Revisions for ID 1029 Series

### Firmware Revision: UPS 15.5

ID Number	Firmware Revision
1029	UPS 15.5
Applicable SKUs	
SCL500RM1UNC, SCL500RMI1UNC.  <b>Note1:</b> This revision provides stronger network data security protection via the below mechanisms to prevent malicious firmware from being upgraded to the UPS through communication interface ports.  <b>Note2:</b> The following security vulnerabilities have been addressed since SCL ID1029 rev UPS 15.1:  - <a href="#">CVE-2022-22805</a>  - <a href="#">CVE-2022-22806</a>  - <a href="#">CVE-2022-0715</a>	
Change Logs	
<ol style="list-style-type: none"><li>1. The mechanism of firmware signing adds to the code in order to protect the UPS from malicious firmware spoofs.</li></ol> <b>Note3:</b> The Smart-UPS Firmware Upgrade Wizard tool always includes the latest firmware and helps you to upgrade to the UPS code. For more information on the tool, see <a href="#">FA279197</a> .	

### Firmware Revision: UPS 15.1

ID Number	Firmware Revision
1029	UPS 15.1
Applicable SKUs	
SCL500RM1UNC, SCL500RMI1UNC.  <b>Note1:</b> This revision includes remediations for the security vulnerabilities listed as CVE-2022-22805, CVE-2022-22806 and CVE-2202-0715 which if compromised, may allow for potential unauthorized access and control of your UPS device.	
Change Logs	
<ol style="list-style-type: none"><li>1. Function implemented to disable UPS firmware upgrades via NMC to mitigate potential risk of malicious UPS firmware being passed through this channel.</li><li>2. Enhanced UPS firmware code protection to mitigate the vulnerabilities of unauthorized extraction of confidential firmware and un-authorized network access to SmartConnect UPS.</li><li>3. Fix an issue to make the upgrade with Output On feature more stable.</li></ol> <b>Note2:</b> The previous versions may refuse the upgrade with Output On in some special situation. In such cases, please choose a suitable time when the UPS can be turned off without affecting the use of equipment connected to the UPS. Turn off the UPS manually and then upgrade.	

## Firmware Revision: UPS 02.5

ID Number	Firmware Revision
1029	UPS 02.5
Applicable SKUs	
SCL500RM1UNC, SCL500RMI1UNC.	
Change logs	
<ol style="list-style-type: none"><li>1. Add 500VA 230V sku support.</li><li>2. <b>Bug-fix:</b> Negative watt calculation added to fix the issue of large error in the load value.</li><li>3. <b>Bug-fix:</b> Deal with MinkVI 500VA jira issue -18: Vout transient drop.</li><li>4. <b>Bug-fix:</b> Fix the issue that battery version shows garbage text on STL battery.</li><li>5. <b>Bug-fix:</b> Modify the low sensitivity blackout detection time.</li></ol>	

## Compatibility

- PowerChute Serial Shutdown v1.0
- FUW (Firmware Upgrade Wizard) Tool v4.3.8