

QUICK START GUIDE

Secure Power Unit - Ref. SPU001



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Pioneer in Analog, Leader in Digital

Thank you for choosing **Analog Way** and the **Secure Power Unit**. By following these simple steps, you will be able to set up and use your external power supply secure unit. Dedicated to **Analog Way's LiveCore™ series (NeXtage 08, NeXtage 16, SmartMatriX Ultra, Ascender 16, Ascender 32 & Ascender 48)**, the **Secure Power Unit** allows a redundant supply and a protection against power cuts or failures.

WHAT'S IN THE BOX

- 1 x **Secure Power Unit 1 RU Frame (SPU001)**
- 1 x LiveCore™ power supply (OPT-SPS)
- 1 x SPU battery (OPT-SPUBATTERY)
- 1 x SPU adaptor block with attached cable
- 1 x IEC power supply cable
- 1 x Grounding cable
- 1 x RS232 cable
- 1 x Rear rack rail kit
- 1 x Quick start guide*

* Quick start guide is also available on www.analogway.com

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your
product

Go to our website to register your product(s)
and be notified about new firmware updates:
<http://bit.ly/AW-Register>

PANELS DESCRIPTION



OPERATION OVERVIEW

THE TEST BUTTON

Pushing shortly the **TEST** button performs a test of the **Secure Power Unit**. It enables a view of the **Secure Power Unit** supply and of the battery charge without any **LiveCore™** device connected (or in standby). A long press will perform a forced charge of the battery if the battery charge is lower than 95% (only when the **LiveCore™** device is in standby or without any **LiveCore™** connected).

Button color usage:

Solid red:  Stand-by mode

Solid green:  Active mode

Blinking green:  Auto test mode

Test button & PSU LED

Blinking red:   Battery mode

PSU LED Status

These LEDs show the status of PSU 1 and 2 slots.

LED color usage:

Off:  The corresponding PSU is not present

Solid green:  The PSU is OK

Solid red:  The PSU is no longer working or not connected to the mains power

BATTERY CHARGE LEDs

These LEDs give the status of the charging rate.

LED color usage:

Solid red:  **25% LED:** the charge is lower than 25%

Solid orange:  **25% LED:** the charge is upper or equal to 25%
50% LED: the charge is upper or equal to 50%

Off:  **50% LED:** the charge is lower than 50%
75% LED: the charge is lower than 75%
100% LED: the charge is lower than 100%

Solid green:  **75% LED:** the charge is upper or equal to 75%
100% LED: the charge is complete

When charging, the LEDs flash until full charge is reached. When discharging, LEDs indicate the remaining charge (same color as charging).

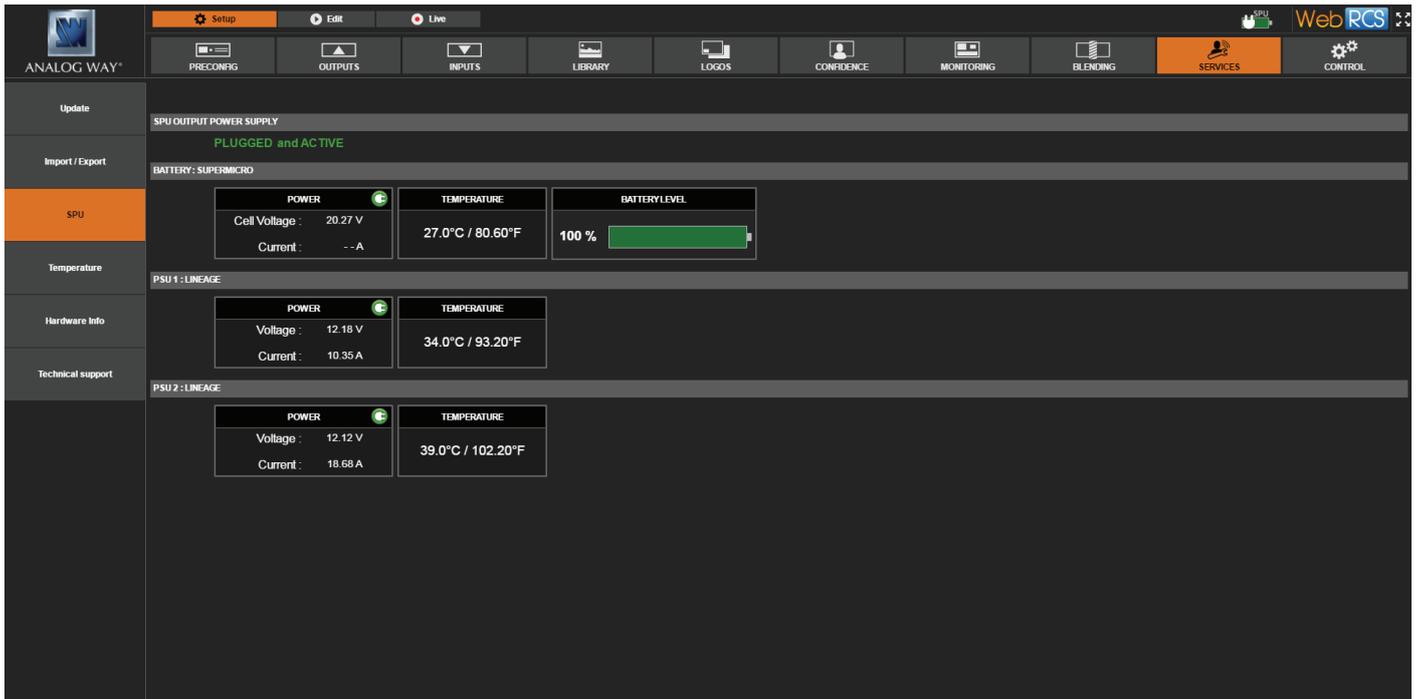
HOW DOES THE SECURE POWER UNIT WORK

The **Secure Power Unit** has been designed to replace the power supply of **LiveCore™** devices. It provides a redundant supply plus a battery.

If a power supply unit stops working, the other one supplies the device. If both stop working, the battery keeps the device switched on for a duration of 5-10 minutes to enable the device to be turned off properly or fix the electrical issue.

When a **LiveCore™** device is powered on using the **Secure Power Unit**, the battery is automatically charging. It is possible to charge the battery when no **LiveCore™** device is running. (see Test Button description).

To find information about the **Secure Power Unit** on the Web RCS ([Setup > Services > SPU](#)), the **Secure Power Unit** has to be connected to the **LiveCore™** device through an RS232 cable.



Web RCS: Setup > Services > SPU

INSTALLING THE SECURE POWER UNIT

Installation steps are detailed hereafter for a first installation or a hot swap. Please make sure to carefully follow instructions.

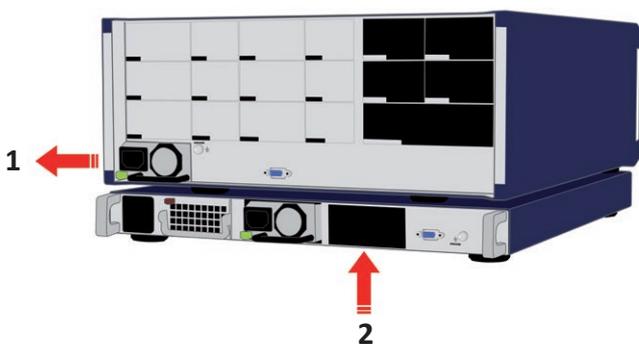
First installation:

Please take the usual safety measures against ESD.

All devices must be disconnected from the mains power.

When installing a new **Secure Power Unit**, the existing power supply from the **LiveCore™** device is moved to the **Secure Power Unit**; the second power supply is already installed in the **Secure Power Unit**.

STEP #1



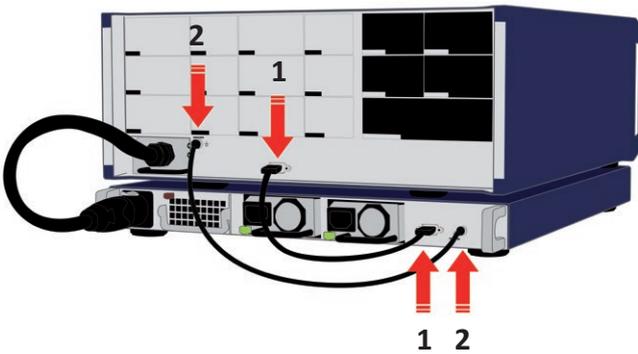
The first step is to unplug the power supply unit from the **LiveCore™** device and to transfer it into the free slot of the **Secure Power Unit**. This provides a second redundant power supply.

STEP #2



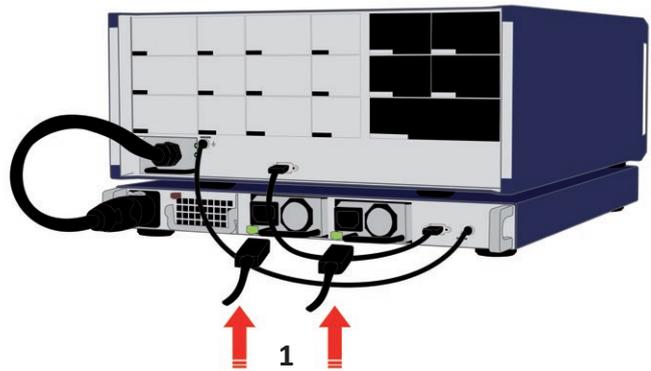
The second step is to insert the head frame into the **LiveCore™** device and connect the **SpeakON™** connector to the **Secure Power Unit**.

STEP #3



The third step is to connect the **Secure Power Unit** to the **LiveCore™** through an RS232 cable. It will provide information about the **Secure Power Unit** directly on the Web RCS interface. Connect the ground between the **Secure Power Unit** and the **LiveCore™** device.

STEP #4



The last step is to power the **Secure Power Unit**. The **LiveCore™** device is ready to run safely.

WARNING: In order to power the **Secure Power Unit**, plug IEC cables first in the **Secure Power Unit** then plug into the mains power.

Hot swap:

You may wish to replace defective elements while the installation is running.

To replace a defective power supply unit while the **LiveCore™** device is running, follow these steps (taking the usual safety measures against ESD):

- Unplug the power cable from the mains,
- Unplug the power cable from the defective Power Supply Unit and take it off,
- Fit the new Power Supply Unit,
- Plug the IEC power cable to the Power Supply Unit,
- Connect the power cable to the mains.

To replace the battery, put the **LiveCore™** device in stand-by, replace the battery then turn on the **LiveCore™** device.

PRECAUTION OF USE AND STORAGE OF LITHIUM-ION BATTERIES

Take the usual precautions against ESD (electrostatic discharge).

To ensure maximum life to the batteries used in the **Secure Power Unit**, some precautions of use are required.

1) In use on a Secure Power Unit:

The charging/discharging system in the **Secure Power Unit** automatically provides the best battery performance. No action is required.

2) Storage:

Like all batteries, when a lithium battery is not used, it is subject to a low self-discharge.

For storage periods longer than 6 months, you should monitor the level of charge and, if the battery is at 50% or less, you must charge the battery using the "Forced charging" feature of your **Secure Power Unit**.

WARRANTY AND SERVICE

This **Analog Way** product has a 1 year warranty on parts and labor (except for the power supply, the frame head and the battery that are under warranty only in case of "Dead On Arrival"). This warranty does not include faults resulting from user negligence, special modifications, electrical surges, abuse (drop/crush), and/or other unusual damage. In the unlikely event of a malfunction, please contact your local **Analog Way** office for service.