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DATA SHEET

# *lab*SPA (Code 3715)

HEAD*lab* Safe Power Adapter


## Overview

Via the adapter *lab*SPA, a HEAD*lab* system can be supplied from a DC power supply with 18 to 36 V (e.g. from a truck battery or from a laboratory power supply).

For connecting *lab*SPA to a DC power supply, the CLO X.3 cable is used, which is connected via cable lugs to the DC power supply.

*lab*SPA is equipped with several safety functions to protect the HEAD*lab* system from damage caused by a faulty voltage supply.

## Features

### Use/Connections

- Adapter for connecting a HEAD*lab* system to a DC power supply with an output voltage of 18 to 36 V
  - Fixed LEMO cable for direct connection to a HEAD*lab* controller
  - LEMO input socket for connecting *lab*SPA to the DC power supply via the CLO X.3 cable

### Safety functions

- Automatic shutdown of a HEAD*lab* system in case of
  - undervoltage or overvoltage (if the *lab*SPA is supplied with less than 18 V or more than 35 V)
  - a voltage reversal of the DC power supply
- Protection by electronic fuse in case of an overcurrent or a short-circuit on the output side
- Protection by internal fuse on the input side

## Scope of Supply

- *lab*SPA (Code 3715)
  HEAD*lab* Safe Power Adapter

## Recommended

- CLO X.3 (Code 3782-3)
  HEAD*lab* Power In cable, cable lugs → LEMO 2-pin, 3 m (118“)

## Technical Data

| | |
|---|---|
| Voltage range input side: | 18 V - 35 V |
| Voltage range output side: | 18 V - 35 V |
| Max. current (electronically controlled): | 6.5 A |
| Internal overload protection: | 8 A |
| Connection input side (*lab*SPA ↔ CLO X.3 cable ↔ DC power supply): | LEMO 2-pin (1S.302) |
| Connection output side (*lab*SPA ↔ HEAD*lab* controller): | LEMO 4-pin |
| Dimensions:<br>incl. cable gland: | 49 x 29 x 78 mm (WxHxD) (1.93“ x 1.14“ x 3.07“)<br>49 x 29 x 136 mm (WxHxD) (1.93“ x 1.14“ x 5.35“) |
| Operating temperature: | -10 °C to 60 °C (14 °F to 140 °F) (non-condensing) |
| Storage temperature: | -20 °C to 70 °C (-4 °F to 158 °F) |