

labSPA (Code 3715)

HEADlab Safe Power Adapter



Overview

Via the adapter *labSPA*, a HEADlab 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 *labSPA* to a DC power supply, the CLO X.3 cable is used, which is connected via cable lugs to the DC power supply.

labSPA is equipped with several safety functions to protect the HEADlab system from damage caused by a faulty voltage supply.

Features

Use/Connections

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

Safety functions

- Automatic shutdown of a HEADlab system in case of
 - undervoltage or overvoltage (if the *labSPA* 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

- *labSPA* (Code 3715)
HEADlab Safe Power Adapter

Recommended

- CLO X.3 (Code 3782-3)
HEADlab 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 (<i>labSPA</i> ↔ CLO X.3 cable ↔ DC power supply):	LEMO 2-pin (1S.302)
Connection output side (<i>labSPA</i> ↔ HEADlab controller):	LEMO 4-pin
Dimensions:	49 x 29 x 78 mm (WxHxD) (1.93" x 1.14" x 3.07")
incl. cable gland:	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)