



Features

- Uninterruptible power supply for HEADlab systems up to a maximum consumption of 40 W
- 11 V - 28 V input voltage range
- 24 V output voltage
- Battery (LiFePO₄) with an output energy of 55 Wh
- Uninterruptible switching between external supply and battery operation
- Extension of the battery-power duration by automatic cutout in „idle mode“
- LED display showing charge status of the battery (in 20% steps)
- Scan of the charge status of the battery (with an accuracy of 1%) via a Controller
- Direct feed via an on-board supply system is possible
- Electrical isolation between input and output
- Silent operation (no fan)
- Rugged design
- Integrated locking mechanism (easy connection of several modules to form a system)

Scope of supply

- labPWR I.1 (Code 3711)
Power Box for HEADlab systems (up to max. 40 W)
- CLO X.3 (Code 3782-3)
Power supply cable
2 x cable lug ↔ LEMO 2-pin,
3 m (118") [DC power source ↔ labPWR I.1]

Power supplies (not included)

- 24 V, 60 W, LEMO 2-pin (Code 0623B)
- 24 V, 150 W, LEMO 2-pin (Code 0621B)

Required (not included)

- CLL XI.xx (Code 3781-xx)
Power supply cable
LEMO 4-pin ↔ LEMO 4-pin

DATA SHEET

labPWR I.1 (Code 3711)

HEADlab Power Box for the power supply of individual modules or smaller systems up to 40 W

Overview

The Power Box labPWR I.1 is used for uninterruptible power supply of HEADlab systems with a total consumption of the connected modules not exceeding 40 W. The battery of the Power Box feeds the connected HEADlab systems according to configuration for several hours without an external power source.

The silent (no fan necessary) and rugged Power Box is intended for both stationary and mobile use.

Power consumption HEADlab 1st und 2nd Generation

labCTRL II.1 (Controller)	8 W
labCTRL I.2 (Controller)	10 W
labHSU (Controller)	10 W
labCOMPACT12-V1 (Controller)	8 W
labCOMPACT24-V1 (Controller)	13 W
labV24 II	12,5 W
labV12 II	8,7 W
labM6 II	10 W
labVF6 II	6,5 W
labV6HD	7 W
labDX	7 W
labT6	2 W
labSG6	9,5 W
labCF6	8 W
labHRT6	10 W
labP2/labP2-V1	10 W
labO2/labO2-V1	10 W

Technical Data

Interfaces:	1 x LEMO 4-pin/1 x LEMO 2-pin
Input voltage range:	11 to 28 V DC
Power consumption battery discharged/charged:	60 W (max.) at 25 °C
Output voltage:	24 V
Maximum output power:	40 W
Battery output energy:	55 Wh
Battery type:	LiFePO ₄
Charge time after complete discharge:	2.5 h
Charge cycles:	>1000
Electrical isolation input/output:	Yes
Uninterruptible switching between external power supply and battery operation:	Yes
Extension of battery-power duration by automatic cutout in „idle mode“:	Yes
LED display showing the charge status of the battery:	In 20% steps
Scan of the charge status via Controller:	1% accuracy
Cooling:	Convection, no fan
Dimensions: including locking elements and rubber pads:	140 x 173 x 62 mm (W x D x H) 148 x 173 x 64 mm (W x D x H)
Weight:	1.55 kg
Charging temperature:	0 °C to 45 °C
Operating temperature:	-10 °C to 55 °C (without charging)/0 °C to 45 °C (charging)
Storage temperature:	-20 °C to 60 °C

Power supplies

24 V, 60 W, LEMO 2-pin

Input voltage:	90 to 275 V AC, 47 to 63 Hz
Input current:	1.5 A at 115 V AC, 0.75 A at 230 V AC
Output voltage:	24 V DC
Output current:	2.5 A
Output power:	60 W
Leakage current:	0.1 mA at 275 V AC NC, 0.3 mA at 275 V AC SFC
Connections AC In: DC Out:	3-pin socket IEC60320-C14 2-pin LEMO connector S series
Housing dimensions:	62 x 135 x 34.1 mm (W x D x H)
Weight:	360 g
Operating temperature:	0 °C to 40 °C

24 V, 150 W, LEMO 2-pin

Input voltage:	90 to 264 V AC, 47 to 63 Hz
Input current:	1.5 A max. at 115 V AC; 2 A at 230 V AC
Output voltage:	24 V DC
Output current:	6.25 A
Output power:	150 W
Leakage current:	0.1 mA at 264 V AC NC, 0.3 mA at 264 V AC SFC
Connections AC In: DC Out:	3-pin socket IEC60320-C14 2-pin LEMO connector
Housing dimensions:	85 x 170 x 40 mm (W x D x H)
Weight:	1.1 kg
Operating temperature:	0 °C to 40 °C

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