DATASHEET

Page **1** | 4

February 20, 2024

Version 1.4



CHS Controls AB Florettgatan 33 SE-254 67 Helsingborg, Sweden Tel +46 42 38 61 00, Fax +46 42 38 61 29 chs@chscontrols.se www.chscontrols.se

UPS-230-180Hx For Obelux LED Aviation Obstruction Lights

inki FINLAND | The information in this document is subject to change without notice.

Mechanical characteristics

Obelux Oy, Kutomot

Enclosure:

Painted Steel (RAL 7035) Degree of Protection IP 55 Corrosion category C3 Door opening >180° (H3 model only)

- Dimensions (W x H x D): 600 x 950 x 400 mm (cabinet only)
- ► Weight: <60 kg (without batteries)
- Weight: <165 kg (with batteries)
- Cable glands:
 6 x M25 (Ø9-17 mm cable) EMC

Electrical characteristics

- Charger type: Victron MultiPlus 24/800/16
- Input voltage: 230 V_{AC} (range 187-265 V_{AC}, 45-65 Hz)
- Output voltage: 230 V_{AC} ± 2 % 50 Hz ± 0,1 %
- Operating temperature range: -40°C ...+65°C (without batteries) -30°C ...+50°C (with batteries) Relative humidity max 95%
- ► Battery charging current: 16 A
- Continuous output power: 700 W (@ 25°C)
- ► Peak output power: 1600 W
- ► Internal battery heating: 70 W
- Alarm outputs (dry contact): Mains power status Main circuit breaker status Over voltage protectors' status Charger / battery alarm

Battery characteristics

- Battery type:
 Victron 12 V 90 Ah GEL (4 pcs)
 Lifting ropes at both ends
- ► Nominal battery capacity: 180 Ah
- Battery weight: 26 kg (per piece)

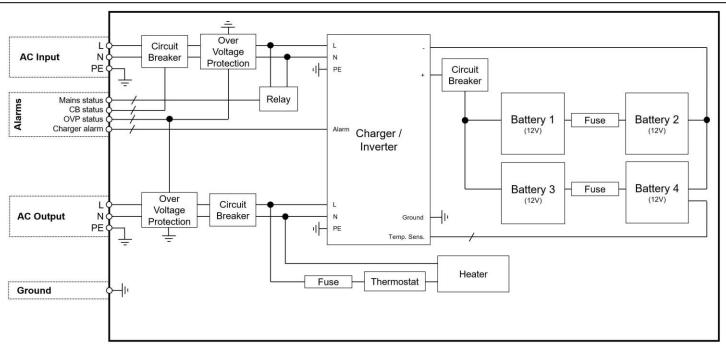


Battery Backup / Power Supply for Cold Climate

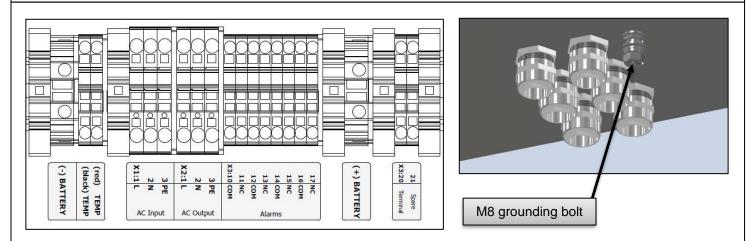
Obelux UPS-230-180Hx is used to provide battery backup for 230 V_{AC} operated Obelux products. The nominal battery capacity is 180 Ah which is achieved by using 4 Victron 12 V 90 Ah GEL battery units. While the individual batteries are 12 V_{DC} the whole battery system operates at 24 V_{DC} . The cabinet is also equipped with thermostat-controlled battery heating to make it suitable for cold climate. Also, approximately 40% of battery capacity is left after discharge to ensure battery survival at -10°C temperature.

Key Features

- 230 V_{AC} / 230 V_{AC} backup power unit
- Overvoltage protected input and output
- Suitable for cold conditions internal 70 W heating included
- Operating temperature range -30°C to +50°C
- Design lifetime of over 25 years (scheduled maintenance required, see manual)
- Battery type sealed GEL battery 12 V, 90 Ah (4 pcs)
- Individual rails for each battery, full extension (H3 model only)
- ► IP 55 Painted steel cabinet (RAL 7035)



1. Block diagram



Connector information (AC Input / Output):

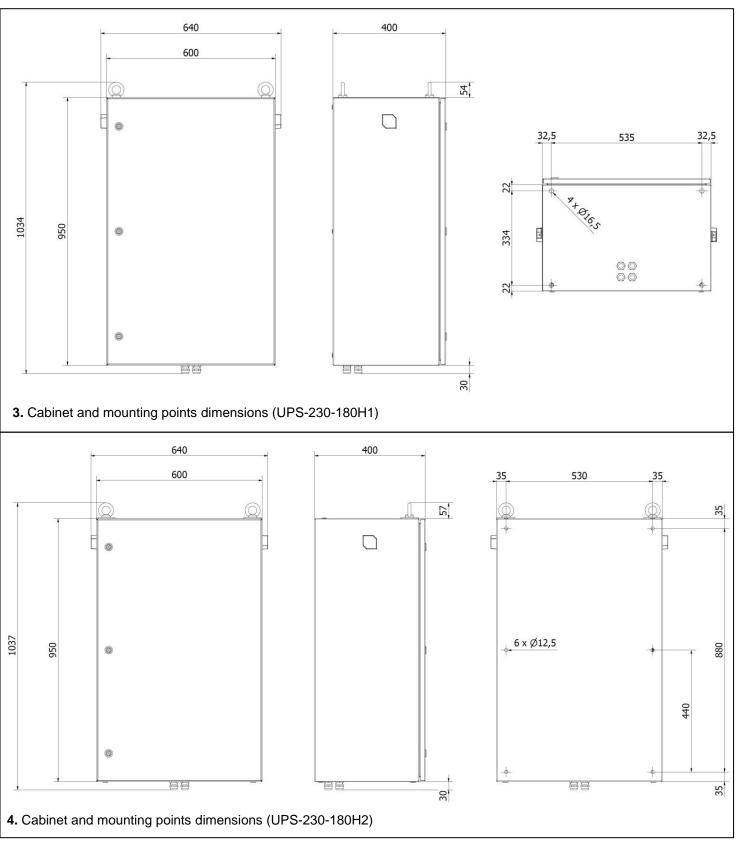
Connectors are push-in terminal blocks. Conductor cross-section: $0,2 - 4 \text{ mm}^2$ (solid wire max 6 mm²)

Connector information (Alarms):

Connectors are push-in terminal blocks. Conductor cross-section: $0,14 - 2,5 \text{ mm}^2$ (solid wire max 4 mm²)

2. Electrical interface

Order code:	Input voltage:	Output voltage:	Output power:	Battery capacity:	Battery rails:	Lifting eyes:	Mounting point:
UPS-230-180H1	187-265 V _{AC}	230 V _{AC}	700 W	180 Ah	No	4 pcs	Bottom
UPS-230-180H2	187-265 V _{AC}	230 V _{AC}	700 W	180 Ah	No	2 pcs	Back
UPS-230-180H3	187-265 V _{AC}	230 V _{AC}	700 W	180 Ah	Yes	4 pcs	Back, bottom stand





Page **4** | 4

