

Data sheet

Power Supply

Kamstrup UtiliKeeper®

- Power Supply 230 Volts AC
- 15 W



Technical specifications

Revision

IRU-05 Working with backup battery: 12/24V UPS and 24V UPS

Input

Voltage input: - AC 85..265 VAC (47..440 Hz)
 - DC 90..375 VDC
 Connector Screw connector (3 x 7.62 mm)
 Wirer range: 0.14 – 2.5 mm² (or max 12 AWG)

Power

Input Power at I out max Maximum: 20 W
 Input Power in overload or short-circuit Maximum: 50 W
 Efficiency Minimum: 60 % at 2 A
 Output Power Maximum: 15 W

Output

Battery charger: - Mode Constant current / limited voltage
 - Voltage Maximum: 13.8 V
 - Current Typical: 90 mA

Output connections

+BAT	to the Battery (+12V)
12/24 UPS	+24VDC when mains is present otherwise +8 V to +13.8 V. Current: max 625 mA (minus current used by the other outputs)
+24 UPS	+24 VDC when mains or battery is active. Current: max 120 mA
+24 V	+24 VDC when mains is present
Gnd	Ground and 0 V of Battery

Total current used by all secondary outputs: battery charger, 24 V output, UPS outputs: (Vp=24 V) Max 0.625 A

Connector Screw connector (5 x 5.08 mm)
 Wirer range: 0.14 – 2.5 mm² (or max 12 AWG)

Technical specifications

Protection

EMC protection
Overload and short-circuit

Maximum 1 second every minute
Above this time, risk of permanent damage (output line is opened)
Soldered Fuse of 1.25 A. Not replaceable by user.
Standard Glass Fuse of 2A fast (5x20). Replaceable by user.

FUSE primary voltage
FUSE battery

Isolation

Input between Earth and secondary

Isolation reinforced according to IEC60950 standard.
3000 Vrms during 1 minute

Temperature

Storage
Working (ambient)
Internal temperature.

-40 °C to 85 °C
Standard: -20 °C to 65 °C.
Ruggedized: -40 °C to 70 °C
≥ 70°C
≥ 85°C
15 to 95 % without condensation

Humidity

LED

Main
CS
ER

Input Voltage present
Not in use
Not in use

Dimensions

Without connector
Weight (w/o connector)

Height x Depth x Width: 150 x 83 x 29 mm
350 g

Approvals

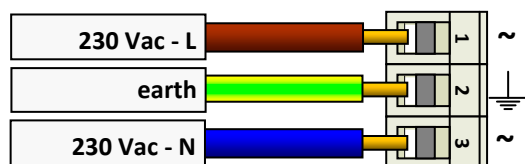
CE, UL, CSA, C-Tick



Cabling Schematic

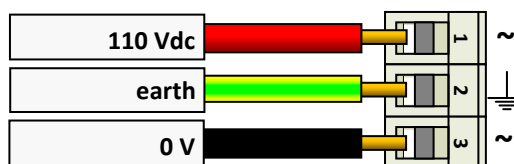
Cabling – Power Supply 230 VAC

Connector: POWER INPUT Screw connector (3 x 7.68 mm)



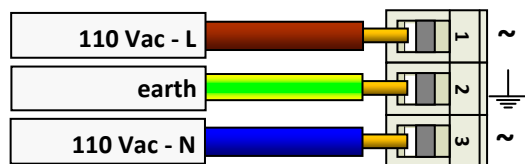
Cabling – Power Supply 110 VDC

Connector: POWER INPUT Screw connector (3 x 7.68 mm)



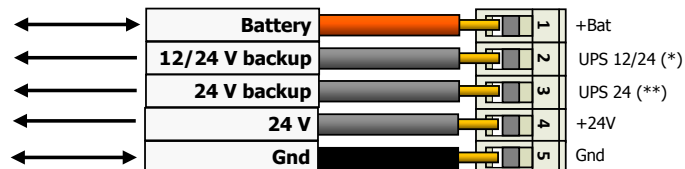
Cabling – Power Supply 110 VAC

Connector: POWER INPUT Screw connector (3 x 7.68 mm)



Cabling – Battery

Connector: POWER OUPUT Screw connector (5 x 5.08 mm)



* 12 V when battery active; 24 V when mains active

** 24 V when battery or mains active

Kamstrup A/S

Industrivej 28, Stilling
 DK-8660 Skanderborg
 T: +45 89 93 10 00
 F: +45 89 93 10 01
 info@kamstrup.com
 kamstrup.com