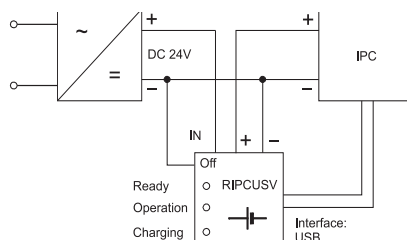


## DC UPS modules



Fig. RIPCUSV 10D with USB interface



## General information:

To supplement the RDCUSV series we offer the RIPCUSV 10D. These RIPCUSV modules are equipped with a USB interface. It can be combined with a 24VDC-supplied industrial PC (IPC) with a Microsoft Windows NT/2000/XP/Vista/W7 operating system to construct a computer-controlled uninterruptible power supply. The UPS communicates with the IPC via the interface. After the UPS time has elapsed the IPC receives a signal on the basis of which it shuts down the system. As soon as the computer has been shut down this is reported to the UPS which then switches off the supply voltage for the computer. Comprehensive software is included with the unit.

The patented technology of our DC UPS modules eliminates the necessity for switching controllers such as boost converters. EMC problems hence do not arise.

All Riedel IPC UPS modules have a compact construction with rechargeable battery inside the enclosure and are easy to install. The IPC UPS modules can be snapped on to support rails. They are connected to the DC voltage output of a 24VDC power supply unit (see block circuit diagram) and the terminal 'OFF' connected to the minus terminal for use.

The electronics of the module monitors the output voltage and connects the rechargeable battery when the value goes below the preset threshold. The internal rechargeable battery is used as a supply source for the consumer over a defined period of time with a maximum current of 10A which is limited internally. The output voltage is adjusted to the threshold value. For visual indication there are LEDs signalling readiness (green), UPS operation (yellow) and rechargeable battery undervoltage (red).

- Function:
- Output voltage stabilised in case of grid failure ( 20.6VDC)
  - Adjustable boot time bridging (2-5min.)
  - Adjustable UPS time (1s to 60min), afterwards signal to IPC via **USB interface** or RS232
  - Switch-off of UPS by signal from computer; automatic switch-off after an adjustable waiting time (30s to 10min)
  - Short circuit-proof
  - Automatic switch-off in following cases:
    - Rechargeable battery undervoltage (17VDC)
  - Automatic charging
    - IV characteristic curve
  - Daily test of rechargeable batteries (automatic) and notification in case of defects.
  - Software offers possibility of automatic script execution
  - Extensive software log function

Type	RIPCUSV 10D
Input voltage	DC 22V ... DC 31.0V
Maximum current consumption	DC 10A
Back-up time	minimum 10min. at 5A
Maximum current consumption after deep discharge	1 A
Back-up ready for 1 cycle after deep discharge	after 5 min.
Loading method	IV characteristic curve
Deep discharge protection	Switch-off threshold: 17VDC
Battery type	lead acid
Signal output	potential-free loading up to 24VDC / 50mA
Ambient temperature	0 - 40°C
Installation position	any installation position
Connection type	print terminals
Connection data	fine-strand max. 2.5mm <sup>2</sup>
Installation	support rail mounting (DIN EN 60715), can be mounted in rows with separation distance > 8mm
Protection class	IP 20
Protection class	I
Weight in kg	approx. 2.4
Item number:	0254-0000010D
Dimensions in mm (L / W / D)	125 / 134 / 153