



ISO 9001

UNINTERRUPTED POWER SUPPLY

RIP-12-1A-7Ahr Protection

INSTRUCTION MANUAL

GENERAL

Uninterrupted Power Supply RIP-12-1A-7Ahr Protection (referred to as RIP) is designed to provide the electric power to a group of fire and intruder detectors, control and indication equipment, executive devices, and access control devices required for uninterrupted 12 VDC.

RIP is round-the-clock operating device with defined output parameters and built-in automatically charged sealed backup battery. RIP provides battery shutting off from load circuit in order to avoid its unacceptable discharge.

RIP is equipped with two light indicators of its current status. POWER and 12 V LEDs located at the RIP front cover are designed to display normal or missing input voltage, output circuit short failure or overload, and battery low voltage shutdown.

When operated, RIP should be protected against atmospheric fallout and mechanical damage.

SPECIFICATIONS

AC Input Voltage Range	– from 187 to 242 VAC@ 50 Hz
Backup Power Supply	– battery Delta DTM1207 12 V @ 7Ahr or analogous
Output Voltage Range	– 13.6 ± 0.6 V under AC line power – 10 mA maximum without loading in backup mode
Load Current Rating	– 1.0 A
Maximum Load Current	– 1.5 A within 5 minutes once in a hour under normal AC line or backup powering
Input Current Consumption	– 0.2 A maximum under 1 A loading
Ripple (mVp-p)×2	– 10 mV maximum under 1 A loading
Battery Low Shutdown	– (9.5 ± 0.5) V
On-Battery Run-Time	– at least 5 hours under 1 A loading and +20°C ambient condition, increasing proportionally to load reduction
Ingress Protection Rating	– IP20
Operating Temperature Range	– from –10° to +40°C
Overall Dimensions	– 220x200x80 mm
RIP Weight Without Battery	– 2.5 kg
Typical Lifetime	– 8 years, the battery being to be replaced once every 5 year

RIP provides battery protection against incorrect wiring polarity and 12 V output short failures by battery shutdown after battery circuit fuse F2 burning.

DELIVERY SET

Uninterrupted Power Supply RIP-12-1-7 Protection (assembled)	- 1
Instruction Manual	- 1
Fuse 0.4 A	- 1 pc
Fuse 2 A	- 1 pc
Self-tapping screw	- 3 pcs
Dowel	- 3 pcs
Package	- 1 pc

SAFETY PRECAUTIONS

Current-carrying RIP circuits at 220 V are dangerous and can bring human injure.

Do periodically inspect proper RIP grounding and fuse proper operability.

Never open RIP unless AC line shut off.

Do shut off AC line power before mounting, installing or maintaining of RIP.

Only skilled personnel trained in electric codes and work safety rules should service the device.

ATTENTION! Connecting RIP to the mains utility power supply KEEP UP the correct coupling of LINE and NEUTRAL TERMINALS in agreement with the picture located inside the enclosure close to power terminal block.

MOUNTING AND WIRING

RIP is to be mounted on the wall or other construction on premises protected against atmospheric fallout, mechanical damage and unauthorized access. RIP mounting dimensions are shown in figure at left.

Attach RIP at a selected location.

Then, in accordance with wiring diagram fixed on internal side of RIP front cover do the following:

- 1) **Ground RIP** coupling the contact "⚡" located on the input terminal block with a grounding network;
- 2) **Having removed F1 (0.4 A) fuse**, connect mains power supply wires to the input block terminals;
- 3) Connect load circuits to the output terminal block keeping the proper polarity.

Note: The maximum load current consumption value is 1 A. It is admitted RIP short time operating with 1.5 A output current consumption within 5 minutes once in an hour, for example, for sound alarming or executive mechanisms or automated fire suppressing system powering on.

RIP OPERATING

Operate RIP-12-1 A-7 Ahr, by doing the following:

First, ensure RIP mounting to be correct.

Then, ensure the battery fuse (2 A) is available and connect the battery to the blades watching the correct polarity with red wire being connected to the positive battery terminal lead.

Next, insert F1 fuse and power up the AC line. POWER and 12 V indicators shall be lit.

While AC line has shut down, RIP automatically switches a load to backup powering. In such a case POWER LED shall go off, while 12 V LED shall continue to light.

When the battery voltage has dropped below 10 V, RIP shuts the battery from its load circuit in order to avoid outage. After that 12 V LED shall go off. RIP can restore its operability only after AC line having been powered up or operating battery replacing.

After mounting DO CHECK UP F2 operability and proper backup mode switching by AC line powering off.

WARRANTY

Manufacturer warrants RIP-12-1 A-7 Ahr Protection Uninterrupted Power Supply to be free from defects and to operate in conformance with specification under normal transportation, mounting and maintenance for 18 months since putting it into operation, but no more than for 24 month since acceptance date (see below).

In the event of in-warranty failure the failed RIP should be brought back to the manufacturer supplied with its damage certificate describing the defect and its acceptance certificate to validate the warranty status. Send your complaints to the manufacturer at the following address:

ZAO NVP BOLID

#4, Pionerskaya street, Korolyov, Moscow Region, Russia, 141070

Tel./fax +7 495 777-40-20, +7 495 516-93-72.

E-mail: info@bolid.ru, Web-site: www.bolid.com

ACCEPTANCE CERTIFICATE

RIP-12-1 A-7 Ahr Protection Uninterrupted Power Supply

Product Designation

Serial Number

Produced, tested by quality control department in compliance with state standards and specifications, packed by NVP BOLID Company and qualified as deliverable.

Q.C.

STAMP

Name

Date of Acceptance

