

FCC Part 68

This product complies with Part 68 of the FCC rules. On the enclosure of this product is a label that contains the FCC registration number. The ringer equivalence number (REN) for this product is listed in the supplied user instruction manual. Ringer equivalence numbers are only applicable to products that connect to standard analog telephone lines. You must, upon request, provide this information to your Telephone Company.

The REN is used to determine the quantity of devices you may connect to a standard analog telephone line and still have all the devices ring when your telephone number is called. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the total RENs, you should contact your local Telephone Company to determine the maximum REN for your calling area.

This product may connect to one or more of the following Universal Service Order Code (USOC) jacks: RJ11, RJ14, RJ45, RJ48 or RJ61X. See the instruction manual supplied for the particular USOC jacks of your product.

A FCC compliant telephone cord and modular plug may be included with this product. This product is designed to be connected to the telephone network or premises wiring using a compatible jack, which is Part 68 compliant. See instruction manual for details.

If this product causes harm to the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify you in advance, but if advance notice is not practical, the Telephone Company will notify you as soon as possible. You will be informed of your right to file a complaint with the FCC.

The Telephone Company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens, the Telephone Company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If you experience trouble with this product, please contact ONEAC Corporation Technical Support at (800) 327-8801, Ext. 3 for information on obtaining service or repair. If the product is causing harm to the telephone network, the Telephone Company may request that you disconnect the product until the problem is resolved.

There are no user serviceable parts in this product.

WARRANTY

ONEAC warrants its product to be free from defects in material and workmanship for a period of five years.

This warranty is limited to repairing or replacing, at ONEAC's option, any defective component, circuit board or module contained within the product only when it is returned with an ONEAC Return Material Authorization (RMA) number to ONEAC or to an ONEAC-designated repair facility. In all cases, shipping charges to and from ONEAC or the ONEAC-designated repair facility are at the customer's expense.

Certain modules or peripherals included with the product but not manufactured by ONEAC, including but not limited to fuses, batteries and other user-replaceable components, are warranted for ninety days or to the extent of the manufacturer's warranty, whichever is longer.

Certain products, including OnLine protectors, are intended to operate as fuses or fail-safe mechanisms to protect connected equipment. Failure of these products due to extreme conditions constitutes normal operation and replacement under these conditions is not covered by this warranty.

This limited warranty does not cover any losses or damage resulting from shipment to or from the customer, or from improper installation, environment or abuse, or from any modifications, adjustments or repair by other than ONEAC-authorized personnel.

NOTE: EXCEPT AS SET FORTH HEREIN AND EXCEPT AS TO TITLE, THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, OR ANY AFFIRMATIONS OF FACT OR PROMISES MADE BY ONEAC WITH REFERENCE TO THE PRODUCTS OR THEIR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT SHALL ONEAC BE LIABLE FOR LOST PROFITS, GOODWILL OR ANY OTHER SPECIAL OR CONSEQUENTIAL DAMAGES.

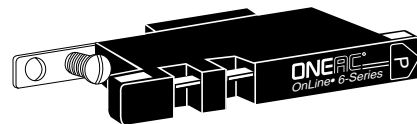
ONEAC, OnLine, and Environmental Reference Ground are registered trademarks of ONEAC Corporation. All other trademarks are the property of their respective owners.

NOTICE: This product may have been manufactured under one or more U.S. or foreign patents, including but not limited to the following: 4,352,055; 4,455,586; 4,758,920; 4,916,438; 4,941,063; 5,357,568; 5,410,443; 5,359,657; 5,490,215; 5,677,820; 5,696,820; 5,671,110; D339,101; D337,987; D335,863.

Instruction Manual

OnLine® 6 Series

Communication Line Protectors



Model #	DC Breakdown Voltage	REN
6-AD	220-400 V	0.5A
6-AP	220-400V	0.5A, 1.3B
6-DP	60-170V	N/A
6-DC	220-400V	0.5A, 1.3B

Thank you for purchasing this ONEAC product.

ONEAC® A HIGHER LEVEL OF CONFIDENCE

ONEAC USA
27944 North Bradley Road
Libertyville, Illinois 60048-9700
United States

TEL: 847-816-6000
800-327-8801
FAX: 847-680-5124

ONEAC Europe
George Curl Way
Southampton, Hampshire SO18 2RY
United Kingdom

TEL: +44-(0)-1235 534721
FAX: +44-(0)-1235 534197

Visit our website at www.oneac.com

A CHLORIDE POWER PROTECTION COMPANY

SAVE THESE INSTRUCTIONS

GENERAL REQUIREMENTS

- The OnLine® 6 Series protector modules provide primary and secondary protection.
- When employed for primary protection, the OnLine 6 Series modules must be enclosed in a listed type 1 NEMA enclosure with fusing conductors no larger than 20 AWG bridle wire or 22 AWG solid copper wire with thermoplastic insulation.
- Installation and grounding of protector modules must be in accordance with Local Codes and Article 800 of the National Electrical Code, ANSI/NFPA 70.
- Intended for indoor use only.
- Never install protectors or wiring during a lightning storm.
- No installation is safe from phone line transient damage, unless OnLine 6 Series protector modules are installed on all phone lines.
- Install OnLine 6 Series modules on a standard 66 block in place of bridging clips.
- Do not install protector modules on the telco demarcation point block.
- One OnLine 6 Series module is required for each pair.
- One ONEAC Ground Bar (Part No. 350-032) is required for each 66 block on which protector modules are to be installed.
- Prior to installing protector modules, disconnect the telephone line at the network interface.
- Avoid bundling phone line cables with inside wiring, power and ground conductors.
- All protector modules must be properly grounded for effective operation. In order to achieve Total Protection, ONEAC power conditioners or power conditioned UPSs are recommended for protecting the phone system's AC power input and provide the best grounding.

CAUTION: Certain models of the OnLine 6 Series protector modules contain resettable over-current protection (sneak current). As soon as the fault has cleared, the protector modules will return to their normal state.

TOOLS AND MATERIALS FOR INSTALLATION

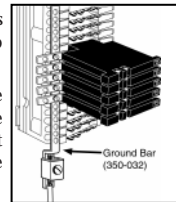
66 block M1-50	6 gauge (AWG) wire
Phillips or Straight blade screwdriver	ONEAC Ground Bar (Part No. 350-032)

INSTALLATION USING 66 BLOCK

1. Locate or install one or more 66 block(s) M1-50 with the pairs requiring protection.
2. Start at the top of the block, and locate the first pair: A) Remove the two bridging clips, and place them aside. B) Align the OnLine 6 Series protector module over the pins where the bridging clips were removed. Verify that the protected side "P" is facing towards the equipment side being protected and that the ground tab is on the opposite side. C) Fully insert the protector module into the block until the unit makes contact with the fanning strip on both sides.

Repeat steps 2A through 2C for each pair on the block and for each of the blocks.

3. Check the ONEAC ground bar to ensure the ground clip is attached. The set screw should face towards you with the tab bending away from you.
4. Align the ONEAC ground bar behind the screws on the ground tabs of each protector. Fasten the bar by tightening the grounding screw on each protector module. **CAUTION:** Do not exceed 21 inch lbs. of torque pressure when tightening the grounding screw.



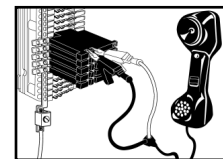
5. Attach a 6 AWG ground wire to the ground bar clip, and tighten the set screw.

6. When wiring, take the shortest and most direct path to ground. Avoid sharp turns and kinks in ground wires.

There are two options for grounding OnLine 6 Series protector modules:

A. *If your system*

is protected by an ONEAC Power Protection Device: Run a 6 AWG ground wire from the ground bar to the Single Point Ground. Next, run a 6 AWG ground wire from the Environmental Reference Ground® screw of the ONEAC Power Protection Device to the Single Point Ground. Then, complete the installation by running a 6 AWG ground wire from the Single Point Ground to the nearest qualified ground.



B. *If your system is not protected by an ONEAC Power Protection Device:* Run a 6 AWG ground wire from the ground bar to the nearest qualified ground.

7. Check operation of phone lines. If any test fails, recheck to ensure the OnLine protector modules are:
A) Properly seated in the block.
B) Not bridging between two adjacent pairs.

LINE TESTING: The OnLine 6 Series enables line testing without removing the modules from the block. ONEAC's design provides easy access on the input side that will enable the technician to clip their Test Set directly to the OnLine 6 Series module. Therefore, there is no need to interrupt service while performing tests.

