

	AVR User's Manual	Doc. No.	01-00-013
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1. Warning and Cautions

- 1.1. Only the authorized engineer or operator can install, adjust, and run this product to prevent injury or damage to the product.
- 1.2. Only the engineer should install, manipulate, and repair the product to prevent injury or damage to the product.
- 1.3. Read this User's Manual and make sure you fully understand the drawings before installing, manipulating, or adjusting this product.
- 1.4. This product is composed of semiconductors. Do not run the pressure resistance test or insulation resistance test.
- 1.5. Make sure to use the correct rated capacity fuse and use the electric wire that fits into the capacity, so that this product can perform to the maximum.
- 1.6. Tightly affix the product, since this device is attached to an engine generator which vibrates greatly.
- 1.7. Check whether any parts are loosened during movement, before installation.
- 1.8. Check to see if the device is suitable for the generator capacity.
- 1.9. Use a holder of external voltage control resistance that does not move easily.

2. Product Features

- 2.1. This product is a single-phase radio-wave rectifier type using SCR.
- 2.2. The input power (220Vac, 50Hz/60Hz/125Hz) can be supplied from the PMG (Permanent Magnetic Generator) or an auxiliary or a coil.
- 2.3. Non-contacting initial flashing
- 2.4. For parallel operation.
- 2.5. Voltage can be controlled by the external device.
- 2.6. Detection voltage can be received from 220Vac and 380Vac.
- 2.7. Generator and AVR are protected by control with low frequency.
- 2.8. Equipped with excess-voltage output protection function, which can be set by user.
- 2.9. Stability setting switch enables this product to be used for both large and small capacity generators.
- 2.10. This product replaces the current 125 model.
- 2.11. Spare fuse is enclosed in the product package.
- 2.12. Terminals are arranged for easy wiring. Additional wires requiring a jumper are supplied.

3. Product Specification

- 3.1. Output: continuous 125Vdc, 6A (750W)
- 3.2. Maximum output for 10 seconds (Input 240Vac): 200Vdc, 10A(2KW)
- 3.3. Power input: single phase 180-277Vac $\pm 10\%$, 50/60/125 Hz, 1.2KVA
- 3.4. Sensing input: single phase 180-277V ac , 50/60Hz. 8VA.
- 3.5. Field circuit resistance of the exciter: 18.3-100 Ω
- 3.6. Voltage stability: under $\pm 0.5\%$ when all loads are entered from no load.

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