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› [VOTRONIC](#) /

› [VOTRONIC 3215 Plus Distributor 8 Instruction Manual](#)

## VOTRONIC 3215 Plus Distributor 8

# VOTRONIC 3215 Plus Distributor 8 Instruction Manual

Model: 3215 Plus Distributor 8

## 1. INTRODUCTION

The VOTRONIC 3215 Plus Distributor 8 is a powerful electrical distribution unit designed for 12V and 24V systems. It features six fused outputs of varying capacities, providing a centralized and secure method for distributing positive power to multiple consumers. This manual provides essential information for the safe installation, operation, and maintenance of your Plus Distributor 8.



Figure 1: VOTRONIC 3215 Plus Distributor 8. This image shows the compact design of the power distributor with its various

## 2. SETUP AND INSTALLATION

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Proper installation is crucial for the safe and efficient operation of the Plus Distributor 8. Ensure all connections are secure and correctly fused according to the load requirements.

### 2.1. Main Power Connection

- The positive power cable from the battery should be connected to the solid screw terminal block.
- Use a cable lug with a cross-section of **16 mm<sup>2</sup>** for this connection.
- The maximum total current load for the unit is **96 A**. Ensure your main fuse (not supplied) matches or exceeds this capacity, but is appropriate for your battery and wiring.

### 2.2. Output Connections

The distributor provides six output connections with varying fuse types and capacities:

1. **Connector 1:** A screw terminal block with a 16 mm<sup>2</sup> lug and a strip fuse (40 A, 50 A, or 60 A). This is suitable for main protection or high-power consumers like inverters (up to 12 V/600 W or 24 V/1200 W) or powerful chargers. An LED indicator is present for this fuse.
2. **Connector 2:** A 6 mm<sup>2</sup> screw terminal with a 30 A flat fuse. This is designed for medium-power consumers or chargers. This branch can be powered either by an internal bridge from the main circuit or separately via a second 6 mm<sup>2</sup> screw terminal.
3. **Connectors 3-6:** Four screw terminals with a large clamping area (4 mm<sup>2</sup>, max. 20 A) and holders for common FKS flat fuses (1 A to 20 A). The package includes 1 x 30 A, 2 x 15 A, and 2 x 10 A flat fuses for these connections.



Figure 2: Detailed view of the VOTRONIC 3215 Plus Distributor 8 connection points. This image highlights the various screw terminals and fuse locations for different current capacities.

### 2.3. Cable Management

The unit includes a cover with a cable management comb to ensure secure cable retention and a neat installation appearance.

## 3. OPERATION

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Once correctly installed and wired, the Plus Distributor 8 operates automatically, distributing power from your battery to connected devices through its fused outputs. The unit is compatible with both 12 V and 24 V electrical systems.

### 3.1. Fuse Monitoring

The strip fuse for Connector 1 includes a monitoring LED. This LED will illuminate or change state if the fuse blows,

providing a visual indication of a circuit interruption. Labeling fields on the housing allow for clear identification of each plug-in fuse, simplifying troubleshooting.

## 4. MAINTENANCE

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The VOTRONIC Plus Distributor 8 requires minimal maintenance. Regular checks can help ensure its longevity and reliable performance.

- **Periodic Inspection:** Periodically inspect all cable connections to ensure they remain tight and free from corrosion.
- **Fuse Check:** If a connected device stops receiving power, check the corresponding fuse. Replace blown fuses only with fuses of the identical type and rating.
- **Cleaning:** Keep the unit clean and free from dust and moisture. Use a dry cloth for cleaning.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your Plus Distributor 8.

| Problem   | Possible Cause                             | Solution   |
|---|--|--|
| No power to a connected device.                     | Blown fuse for that output.                | Identify the blown fuse (check LED for Connector 1, or visually inspect others). Replace with a new fuse of the <b>exact same type and rating</b> . Investigate the cause of the overload. |
| LED indicator for Connector 1 is lit/changed state. | Strip fuse for Connector 1 has blown.      | Replace the strip fuse (40 A, 50 A, or 60 A) with one of the same rating. Ensure the connected load does not exceed the fuse capacity.   |
| Loose connections or intermittent power.            | Vibrations or improper initial tightening. | Check and re-tighten all screw terminals. Ensure cable lugs are properly crimped.  |

## 6. TECHNICAL SPECIFICATIONS

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| Feature                          | Detail   |
|----------------------------------|--|
| Model                            | 3215 Plus Distributor 8  |
| Brand                            | VOTRONIC   |
| Manufacturer                     | Votronic   |
| Manufacturer's Item Model Number | Sunroad Equipment  |
| Compatibility                    | 12 V and 24 V systems  |
| Total Max Current Load           | 96 A   |
| Main Input Cable Cross-section   | 16 mm <sup>2</sup> (with cable lug)  |
| Output 1 (High Power)            | 16 mm <sup>2</sup> screw terminal, Strip Fuse (40 A, 50 A, or 60 A), LED indicator |

| Feature                 | Detail  |
|-------------------------|---|
| Output 2 (Medium Power) | 6 mm <sup>2</sup> screw terminal, Flat Fuse (30 A)  |
| Outputs 3-6 (Standard)  | 4 mm <sup>2</sup> screw terminals, FKS Flat Fuses (max. 20 A)                             |
| Dimensions (L x W x H)  | 13.5 x 18.3 x 5.2 cm  |
| Item Weight             | 180 g   |
| Included Fuses          | 1 x 30 A, 2 x 15 A, 2 x 10 A (flat fuses); and one strip fuse (e.g., 40 A, 50 A, or 60 A) |

## 7. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please refer to the official VOTRONIC website or contact your authorized dealer. Keep your proof of purchase for any warranty claims.

VOTRONIC products are designed for reliability and performance. Should you encounter any issues not covered in this manual, professional assistance is recommended.