

31S Series Severe Service Power Distribution Module

Power Distribution

VEC

ssVEC



Severe Service Vehicle Electrical Center (ssVEC)

Introducing the ruggedized version of the Cooper Bussmann Vehicle Electrical Center, the 'Severe Service' VEC (ssVEC). This version of the VEC features unequalled performance in power distribution in an IP66 compliant enclosure. The ssVEC is capable of operating in various environments such as those with high vibration and moisture, up to direct high pressure spray. The ssVEC provides efficient and compact power distribution for OEMs with demanding applications in the transportation industry including construction, agriculture, heavy trucks, bus, marine and specialty vehicles.

As with all VECs, the ssVEC uses the patented Cooper Bussmann 'power grid' technology that is easily programmed to accommodate various OEM wiring requirements.

Cooper Bussmann VECs all feature a unique color coded and keyed connector system, and accepts common plug-in fuses, relays, circuit breakers, resistors, diodes, etc., based on the industry standard 2.8mm footprint.

Additionally the ssVEC has these new features:

- Durable plastic housing featuring multiple venting configurations including a Gortex vent
- Internal silicone gasketing between all seams and plastic to terminal interfaces
- Internal spare fuse holder and socket for fuse extraction tool

The ssVEC features various custom design versions (differing relay, fuse, breaker, etc. configurations) supporting 12V and 24V electrical systems (or combinations thereof).

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Specifications

Capacity: 200 amps maximum; 30 amps per output connection, maximum 32 fuses /12 relays (size dependent) or various combinations thereof (diverse design configurations supported)

Materials: Housing and connector cavities: 94V0 rated thermoplastic
Internal power grid: tin-plated copper
Internal gaskets stud input covers: silicone

Operating Temperature Ratings: -40°C to 105°C (operating).

Ingress Protection: Application dependant up to IP66 equivalent (direct high pressure spray)

Maximum Torque Rating: 200 to 300 in-lbs with standard compression limiters, 24 in-lbs without compression limiter.

Connections: **Output:** Standard Cooper Bussmann VEC connectors

- 8-way, colored/keyed, sealed connectors
- 30A max per terminal
- Accepts Packard Metri-Pack 280 Series terminals (tanged/tangless)

Specifications (Cont)

Input:

- Studded input option: supports two M8 input power studs for DC power into the VEC power grid (100A max per stud)
- Connectorized: accepts up to 2 Cooper Bussmann 32004 VEC connectors (2 terminal, colored/keyed, sealed connectors)
- 60A max per terminal, providing power to the VEC Power Grid; uses Packard 800 series terminals

Options

1. Compression limiters on mounting feet
2. Labeling to customer specifications
3. Stuffed (with/without components including, but not limited to: fuses, relays, diodes, circuit breakers, fuse puller)
4. Customized circuit layouts
5. Power connector

Dimensions - mm

