

50VA, IP66-Rated, Rugged, Industrial Quality Sine Wave Inverter 24Vac Output for Monitoring Cameras CSI 50-D1 Series (IP66)



- Sinusoidal output voltage
- Packaged in a waterproof IP66 enclosure
- Internal module ruggedized and conformal coated
- Rugged, field-proven design
- Filtered input/output
- Full electronic protection

This rugged DC-AC inverter utilizes field proven, microprocessor controlled high frequency PWM technology to generate up to 50VA low voltage pure sine wave output. The units are packaged in rugged, waterproof, IP66 die cast aluminum enclosures. The input and output are via sealed cable glands, circular connectors or custom connections. The internal boards are ruggedized and conformal coated for increased immunity to high levels of shock and vibration. Cooling is by internal conduction to the walls of the IP66 enclosure and by baseplate to an external chassis or cabinet wall, and additional convection via the outside surface. This enables operation within a wide temperature range for full specification. If installed on a heat-sinking surface, cooling is further enhanced and the converters achieve higher output power. The DC-DC input stage boosts the input voltage to a higher DC bus voltage, which feeds the DC/AC inverter to generate the required AC output. The input and output are filtered for low noise. Full electronic protection, generous design headroom and the exclusive use of components with established reliability also contribute to high MTBF. The unit is manufactured at our plant under strict quality control. Customized versions are available. This design is suitable for powering monitoring cameras in transportation, mining, marine, oil rig, military and other severe environments.

SPECIFICATIONS

Input Voltage

12V, 24V, 36V, 48V or 125Vdc
± 15% are standard
Min. startup at 12V: 10.5-16V
Other inputs are available on request.

Input Protection

Inrush current limiting
Varistor
Reverse polarity protection
Internal safety fuse
Lower voltage than the specified minimum input will not damage the unit

Isolation

According to input voltage
Min. 700Vdc input to chassis
Min. 1000Vdc input to output
700Vdc output to chassis
Floating output

Standards

Designed to meet
C22.2 No. 107.1 - 01,
UL 458 and EN 60950-1

EMI

EN 55022 Class A with margins
conducted and radiated

Terminal Block Pin-Out (Internal)

| INPUT | | | | | | OUTPUT | | |
|-------|---|-----|----------|----------|----------|----------------|----------------|----------|
| - | + | GND | NOT USED | NOT USED | NOT USED | L ₂ | L ₁ | NOT USED |
| 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

The terminal block is accessible via cable glands

The specifications on this data sheet are generic and are subject to change. Enhancements to these specifications can be provided upon request.

OEM of professional quality AC/DC power supplies and battery chargers, DC/DC converters, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard.



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