CSI500 - FWX SERIES

DC / AC Sine Wave Inverters:  500 VA

General Specifications

- Input Voltage: 24VDC, 36VDC, 48VDC or 125VDC
- Other input voltage options on request
- Input Voltage Range: ±15% standard. Other wider inputs on request.
- Input Protection: Inrush current limiting, Internal safety fuse, Reverse Polarity Protection
- Isolation: 1700vdc input – chassis, 1700vdc input - output
- EMI: EN55022 Class A conducted
- Immunity: EN 61000 -4
- Output voltage: 230VAC
- Output neutral is connected to chassis. Link / Jumper can be removed if floating output is required
- Output Waveform: Sinusoidal
- Harmonic Distortion: Less than 5% at 100% load.
- Output Freq.: 50Hz, 60Hz, 400Hz options
- Load Crest Factor: 2 at 90% load
- Output Power: 500VA
- Regulation: Line / Load: ± 3% from 10% to 100% load step.
- Output Noise: High Frequency ripple is better than 500mVrms (20MHz BW)
- Protection: Current limiting with short circuit protection, Self re-setting thermostat for thermal protection
- Output Over Voltage Protection: Output voltage is limited by internal supply voltage
- Efficiency: Input voltage / model dependent typically 80% at 100% load
- Operating Temp: 0°C to +50°C at rated load. Other options on request
- Cooling: By internal fans
- Shock & Vibration: Designed to meet IEC61373 Cat 1 A & B
- Humidity: 5-95% no n-condensing
- MTBF: >130,000 hrs at 45°C
- LED Indicator: Optional
- Control Input: Remote shutdown - option
- Connector: 12 pole terminal block, other options on request
- Dimensions: 358 x 185 x 67 mm (FXW)
- Weight: 3.2 kg

Features

- Various input options 24 ~125VDC
- Sinusoidal output waveform
- 500VA output power
- Industrial design
- Frequency options 50Hz / 60Hz / 400Hz
- Optional output fail alarm on some models
- Low profile 67mm
- Rugged design for harsh environments
- Full electronic protection
- RSI series (Rail Spec) - option

Description

The CSI500FWX is a rugged DC/AC inverter using field proven, microprocessor controlled high frequency PWM technology to generate 500VA output power with pure sine wave output voltage. It is a mature design with a track record in numerous applications. The DC/DC input stage boosts the input voltage to a higher DC voltage, which feeds the DC/AC inverter to generate the required AC output. The use of high frequency conversion enables a compact construction, low weight and high efficiency. The unit has full electronic protection. The input and output are filtered for low noise.

Options (may not be available on all combinations)

- Alarms: Output Fail Alarm: voltage free relay contacts
- Remote Inhibit: Remote ON / OFF
- Ruggedized: Conformal coating and Ruggedization for use in harsh environments
- Slow Start: Slow start up option for powering fans
- Connector: A variety of terminals / connectors available to suit special customer requirements
- Rack Mount: 2U x 19in Rack Mount

Model No Example:

CSI500-SE-FWX (125 VDC / 230VAC 50Hz)

Table

<table>
<thead>
<tr>
<th>CSI</th>
<th>Power</th>
<th>Input Vdc</th>
<th>Output</th>
<th>FXW</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td></td>
<td>2 = 24V</td>
<td>A = 115V/60Hz</td>
<td>Std Package</td>
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<tr>
<td>3</td>
<td>36V</td>
<td></td>
<td>E = 230V/50Hz</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>48V</td>
<td></td>
<td>M = 115V/400Hz</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>96V</td>
<td>108 = 108V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>108</td>
<td>125V</td>
<td></td>
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</tbody>
</table>

1. Non standard combinations are available on request
2. Final Part no will be allocated at time of order to reflect customer specifications and options.

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