

## JHW100 Dual-Output Series Power Modules; dc-dc Converters: 36 Vdc to 75 Vdc Input, 5.0/3.3 Vdc or 3.3/2.5 Vdc Outputs; 15 A

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### Applications

- 48 V bus distributed power architectures
- Communications equipment
- Computer equipment

### Options

- Heat sinks available for extended operation without derating
- Negative remote on/off logic
- Remote sense pins (both outputs)
- Trim pins (both outputs) (+10%/–40%)

\* ISO is a registered trademark of the International Organization for Standardization.

† UL is a registered trademark of Underwriters Laboratories, Inc.

‡ CSA is a registered trademark of Canadian Standards Association.

§ VDE is a trademark of Verband Deutscher Elektrotechniker e.V.

\*\* IEC is a trademark of International Electrotechnical Commission.

†† This product is intended for integration into end-use equipment. All the required procedures for CE marking of end-use equipment should be followed. (The CE mark is placed on selected products.)

### Features

- Two outputs of 15 A output capability in a potted half-brick size:  
61.0 mm x 57.9 mm x 12.7 mm  
(2.40 in. x 2.28 in. x 0.50 in.)
- High efficiency: 86% typical (5.0/3.3 Vo module at full load)
- Overcurrent protection (latched)
- Overvoltage protection (hiccup-mode)
- Overtemperature protection (shutdown and delayed auto-restart)
- Constant frequency
- Low output noise and ripple
- Monotonic startup for each output
- Startup into pre-biased loads
- No minimum load required
- Metal baseplate with ground pin
- Positive remote on/off logic
- Manufacturing facilities registered against the ISO\* 9000 series standards
- Meets the voltage and current requirements for ETSI 300-132-2 and complies with and is Licensed for Basic Insulation rating per EN60950 (-B version only)
- UL† 60950 Recognized, CSA‡ C22.2 No. 60950-00 Certified, and VDE§ 0805 (IEC\*\*60950, 4th Edition) Licensed
- CE mark meets 73/23/EEC and 93/68/EEC directives††

### Description

The JHW100-Series Power Modules are dual-output half-brick potted dc-dc converters that operate over an input voltage range of 36 Vdc to 75 Vdc and provide two precisely regulated dc outputs at 15 A each. The outputs are fully isolated from the inputs, allowing versatile polarity configurations and grounding connections. Each output is trimmable and sense-regulated independently. A common remote on/off logic pin controls both outputs.

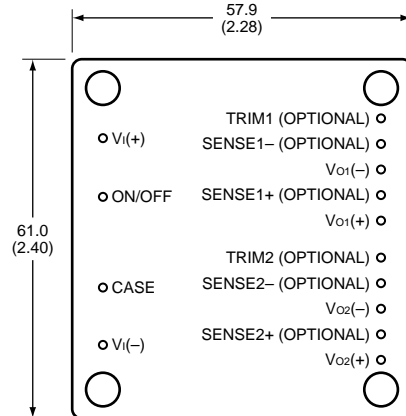
These modules offer a metal baseplate for excellent thermal performance. Threaded-through holes are provided to allow easy mounting or addition of a heat sink for high-temperature applications.

## Outline Diagram

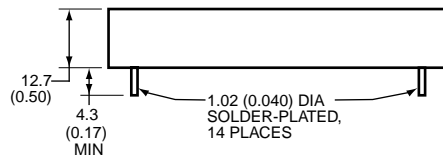
Dimensions are in millimeters and (inches).

Tolerances: x.x mm  $\pm$  0.5 mm (x.xx in.  $\pm$  0.02 in.)  
 x.xx mm  $\pm$  0.25 mm (x.xxx in.  $\pm$  0.010 in.)

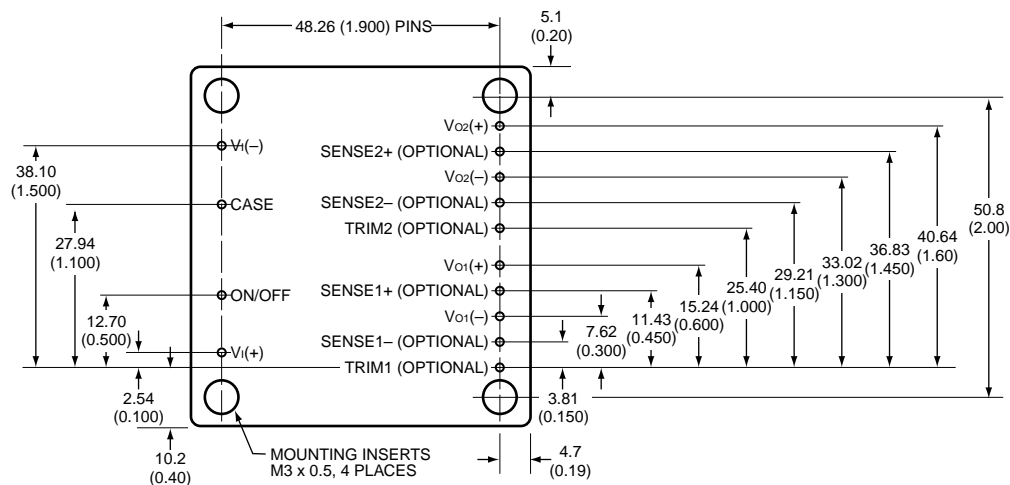
### Top View



### Side View



### Bottom View

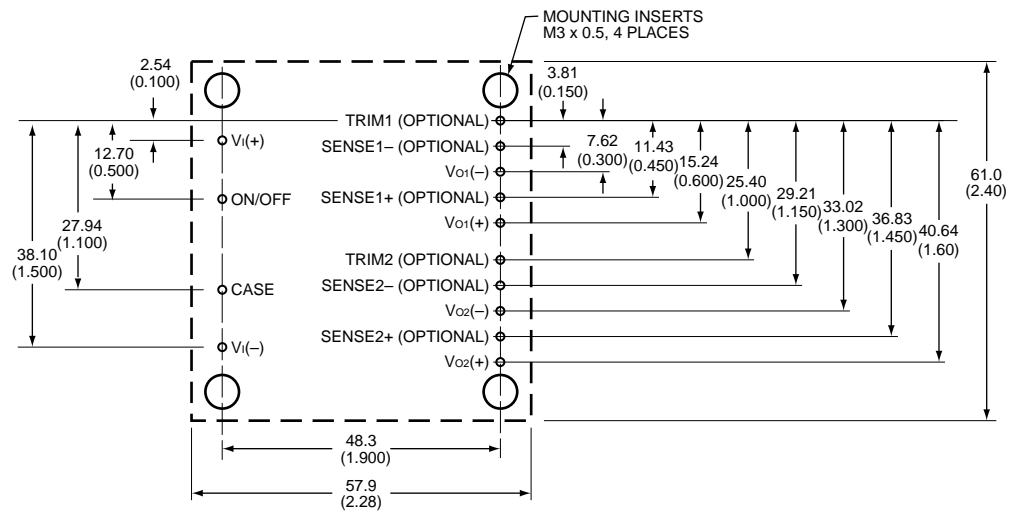


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## Recommended Hole Pattern

Component-side footprint.

Dimensions are in millimeters and (inches).



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Please contact your Tyco Electronics' Account Manager or Field Application Engineer for pricing and availability.

Input Voltage	Output Voltage	Output Power	Output Current	Device Code	Comcode
48 Vdc	5.0 Vdc, 3.3 Vdc	100 W	15 A	JHW100AF	TBD
48 Vdc	3.3 Vdc, 2.5 Vdc	100 W	15 A	JHW100FG	TBD

Negative remote on/off logic JHW100AF1

Option	Suffix
Negative remote on/off logic	1
Approved for Basic Insulation	-B
Remote sense pins (both outputs)	call factory
Trim pins (both outputs)	call factory



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