

100 Watt
1.45x2.28 Inch Package Q
4:1 Input Range

- o Efficiency up to 88%
- o Wide Input Range
- o Regulated Single Output
- o Continuous Short Circuit Protection
- o Industrial Standard Quarter-Brick Package



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
100QRS48X3.3LC	18-75 VDC	3.3 VDC	30 A	60 mA	2344 mA	88
100QRS48X5LC		5 VDC	20 A		2367 mA	
100QRS48X12LC		12 VDC	8.3 A	30 mA	2358 mA	
100QRS48X15LC		15 VDC	6.7 A		2379 mA	
100QRS48X24LC		24 VDC	4.17 A		2369 mA	

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS

Input Voltage Range		4:1
Undervoltage lockout	48 Vin power up	17 V
	48 Vin power down	16 V
Positiv Logic Remote ON/OFF ³⁾	Logic Compatibility Module ON Module OFF	Open Collector ref. to -Input >3.5 VDC to 75 VDC or Open Circuit <1.2 VDC
Input Filter		Pi Type

OUTPUT SPECIFICATIONS

Voltage Accuracy		±1.5% max.
Transient Response 75%-100% Step Load Change	Error Band Recover Time	3.3 V ±6% Vout, Others ±5% Vout <500 μsec.
External Trim Adj. Range ⁵⁾		±10%
Ripple and Noise at 20 MHz BW	3.3 V, 5 V	40 mV RMS max. 100 mV p-p max.
	12V, 15 V	60 mV RMS max. 150 mV p-p max.
	24V	100 mV RMS max. 240 mV p-p max.
Temperature Coefficient		±0.03%/°C
Short Circuit Protection		Continuous
Line Regulation ¹⁾		±0.2% max.
Load Regulation ²⁾		±0.2% max.
Over Voltage Protection Trip Range, % Vo Nom.		115-140%
Current Limit		110% ~ 160% Nominal Output

NOTE:

1. Measured from High Line to Low Line.
2. Measured from Full Load to min. Load.
3. The output Noise is measured with 10 µF tantalum capacitor and 1 µF ceramic capacitor across output.
4. Add Suffix "R" to the Model Number with Negative Logic Remote ON/OFF.
Module ON.....<1.2 VDC
Module OFF.....>3.5 VDC to 75 VDC or Open Circuit
5. Trim-up connect a resistor between the trim pin and +sense
Trim-down connect a resistor between the trim pin and -sense

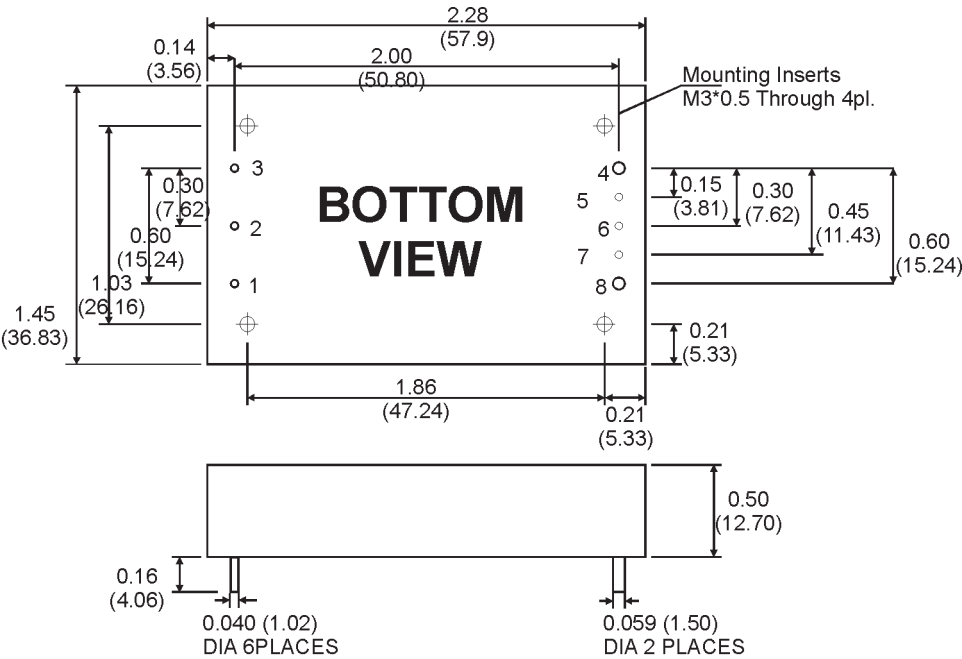
GENERAL SPECIFICATION

Efficiency	see table		
Isolation Voltage	Input/Output	1500 VDC min.	
	Input/Case	1500 VDC min.	
	Output/Case	1500 VDC min.	
Isolation Resistance	10 MOhms min.		
Switching Frequency	250 kHz		
Operating Case Temperature Range	-40°C to +100°C		
Derating			
Storage Temperature Range	-40°C to +105°C		
Thermal Shutdown, Case Temp.	+110°C		
Dimensions	1.45x2.28x0.50 Inches (36.8x57.9x12.7 mm)		
Case Material	Aluminum Baseplate with Plastic Case		

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MECHANICAL SPECIFICATIONS

Case „Q"



PIN CONNECTIONS	
1	+INPUT
2	REMOTE CONTROL
3	-INPUT
4	-OUTPUT
5	-SENSE
6	TRIM
7	+SENSE
8	+OUTPUT

All Dimensions in Inches (mm).
Tolerance .xx=±0.02, .xxx=±0.010 Inches
(.x=±0.5, .xx=±0.25 mm)

DIAGRAMS

