

66 to 100 Watt 2.28x2.40 Inch Package M 4:1 Input Range



- o Efficiency up to 88%
- o Wide Input Range
- o Regulated Single Output
- o Continuous Short Circuit Protection
- o Half Brick Size Meet Industrial Standard
- o Five-Sided Shield Metal Case



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
100MRS24X3.3LC	9-36 VDC	3.3 VDC	20 A	35 mA	3374 mA	81.5
100MRS24X5LC		5 VDC	20 A		4990 mA	83.5
100MRS24X12LC		12 VDC	8.3 A		4902 mA	85
100MRS24X15LC		15 VDC	6.7 A		4817 mA	86.5
100MRS24X24LC		24 VDC	4.17 A		4849 mA	86
100MRS48X3.3LC	18-75 VDC	3.3 VDC	20 A	30 mA	1708 mA	80.5
100MRS48X5LC		5 VDC	20 A		2422 mA	86
100MRS48X12LC		12 VDC	8.3 A		2408 mA	86.5
100MRS48X15LC		15 VDC	6.7 A		2381 mA	87.5
100MRS48X24LC		24 VDC	4.17 A		2367 mA	88

SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range		4:1
Undervoltage lockout	24 Vin power up	8.8 V
	24 Vin power down	8 V
	48 Vin power up	17 V
	48 Vin power down	16 V
Positiv Logic Remote ON/OFF ⁴⁾	Logic Compatibility Module ON Module OFF	Open Collector Ref. to -Input >3.5 VDC or Open Circuit <1.8 VDC
Input Filter		Pi Type

OUTPUT SPECIFICATIONS

Voltage Accuracy		±1.5% max.
Transient Response	25% Step Load Change	<500µ sec.
External Trim Adj. Range		±10%
Ripple and Noise at 20 MHz BW ³⁾	3.3V, 5V	40 mV RMS max. 100 mV p-p max.
	12V, 15V	60 mV RMS max. 150 mV p-p max.
	24 V	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% ~ 140% Nominal Output

NOTE:

1. Measured from High Line to Low Line.
2. Measured from Full Load to Zero Load.
3. Output Ripple & Noise measured with 10 µF tantalum and 1 µF ceramic capacitor across output.
4. Add Suffix "R" to the Module Number with Negative Logic Remote ON/OFF.
Module ON.....<1.8 VDC
Module OFF.....>3.5 VDC or Open Circuit

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
Recommended Reflow Soldering Pb-free*		see diagram
Operating Case Temperature Range		-40°C to +100°C
Storage Temperature Range		-55°C to +105°C
Thermal Shutdown (Case Temperature)		+105°C
Dimensions		2.28x2.4x0.5 Inches (57.9x61.0x12.7 mm)
Case Material		Aluminum

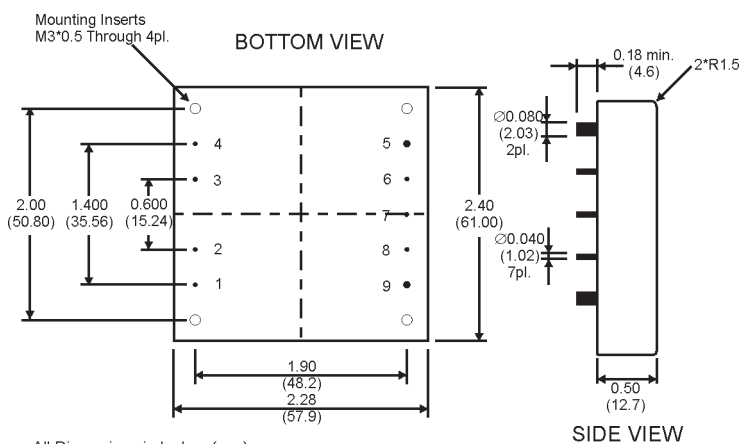
*) We do not recommend vapor phase soldering!

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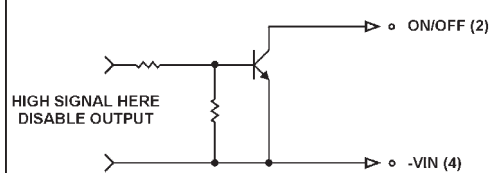
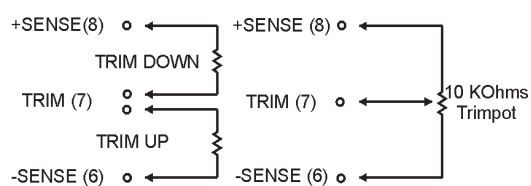
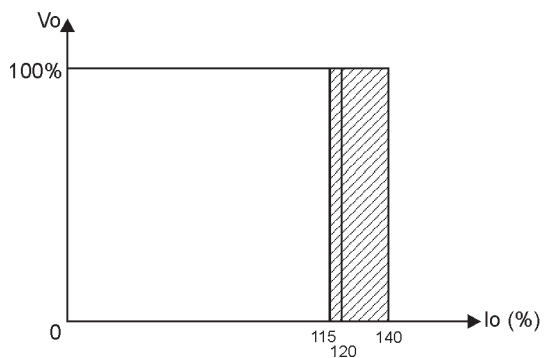
MECHANICAL SPECIFICATIONS

Case „M“



All Dimensions in Inches (mm).
Tolerance: x.xx=±0.02, x.xxx=±0.010 Inches
(x.x=±0.5, x.xx=±0.250 mm)

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

DIAGRAMS**Remote On/Off Control****External Output Trimming****APPLICATION NOTE****Current Limit Curve****Output Short, Vo Characteristics**