

150 Watt

1.45x2.28 Inch Package Q



- o High Efficiency up to 89%
- o Regulated Single Output
- o Remote ON/OFF
- o Over Temperature Protection
- o Over Voltage/Current Protection
- o Continuous Short Circuit Protection
- o Quarter-Brick Size meet Industrial Standard
- o Full Isolated I/O 3000 VAC
- o CE Mark meets 2014/30/EU
- o Designed to meet UL60950-1, EN60950-1 and IEC60950-1



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT MAX.	INPUT CURRENT		%EFF	CAPACITOR LOAD MAX.
				NO LOAD	FULL LOAD		
150QRS300X3.3LC	180-425 VDC	3.3 VDC	30 A	10 mA	0.4 A	84	10000 μ F
150QRS300X5LC		5 VDC			87		
150QRS300X12LC		12 VDC	12.5 A		0.6 A	89	8800 μ F
150QRS300X15LC		15 VDC	10 A				
150QRS300X24LC		24 VDC	6.3 A				
150QRS300X28LC		28 VDC	5.4 A		0.56 A	88	2200 μ F
150QRS300X48LC		48 VDC	3.2 A				

NOTE:

1. Nominal Input Voltage 300 VDC.
2. An external input capacitor 180 μ F for all models are recommended to reduce input ripple voltage.
3. Measure at nominal input voltage.

SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range	300 V	180 - 425 V
Input Over Voltage Protection	Module ON Module OFF	430 V 450 V
Undervoltage lockout	300 Vin power up 300 Vin power down	175 V 160 V
Positive Logic Remote ON/OFF ¹⁾	Logic Compatibility Module ON Module OFF	Open Collector ref to -Input >3.5 VDC to 75 VDC or Open Circuit 0 to <1.2 VDC
Input Filter		Pi Type

OUTPUT SPECIFICATIONS

Voltage Accuracy		±1.0% max.
Transient Response	25% Step Load Change	<250 µ sec.
External Trim Adj. Range		+10%, -20%
Ripple and Noise at 20 MHz BW ²⁾	3.3 V, 5 V	100 mV p-p max.
	12 V, 15 V	60 mV RMS 150 mV p-p max.
	24 V, 28 V	100 mV RMS 280 mV p-p max.
	48 V	200 mV RMS 480 mV p-p max.
Temperature Coefficient		±0.02%/°C
Short Circuit Protection		Continuous
Line Regulation ³⁾		±0.2% max.
Load Regulation ⁴⁾		±0.2% max.
Over Voltage Protection trip Range, % Vo nom.		115-140%
Current Limit		110% to 160% Nominal Output
Start up Time		150 mS

NOTE:

- Suffix "N" to the model number with negative logic remote ON/OFF.
Module ON 0 VDC to <1.2 VDC
Module OFF >3.5 VDC to 75 VDC or Open Circuit
- Output Ripple and Noise measured with 10 µF tantalum and 1 µF ceramic capacitor across output.
- Measured from High Line to Low Line.
- Measured from Full Load to Zero Load.

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GENERAL SPECIFICATION

Efficiency		see table
Isolation Voltage	Input / Output Input / Case Output / Case	3000 VAC min. 2500 VAC min. 500 VAC min.
Isolation Resistance		10 ⁷ Ohm min.
Switching Frequency		360 kHz
Operating Ambient Temperature		-40°C to +105°C
Storage Temperature		-55°C to +105°C
Thermal Shutdown (Case Temperature)		+110°C
Humidity		95% RH max. Non condensing
MTBF (MIL-HDBK-217F, GB, 25°C, Full Load)		TBD
Dimensions		2.28 x 1.45 x 0.50 Inches (57.9 x 36.8 x 12.7 mm)
Case Material		Aluminum Base Plate with Plastic Case
Weight		TBD

NOTE:

5. Suffix "C" to the Model Number with Clear Mounting Insert (3.2 mm DIA).
6. An external input capacitor 180 µF for all models are recommended to reduce input ripple voltage.

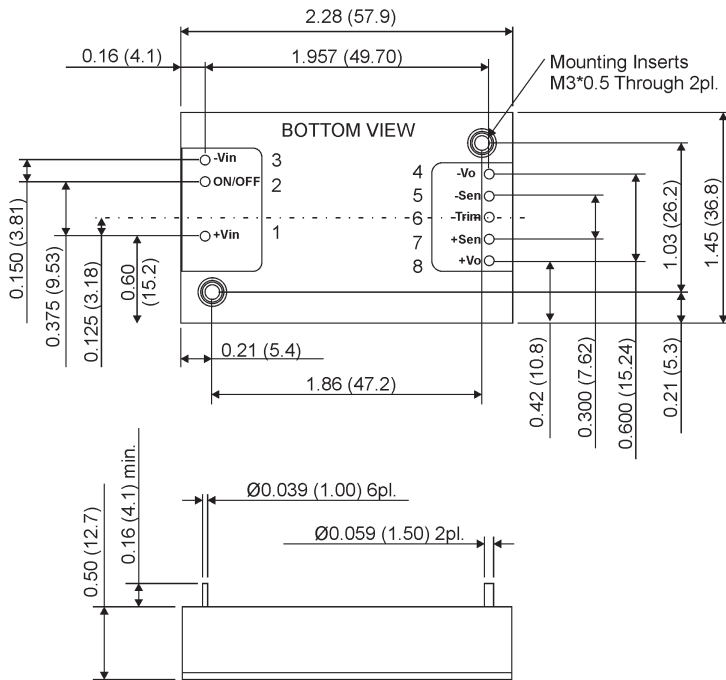
SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

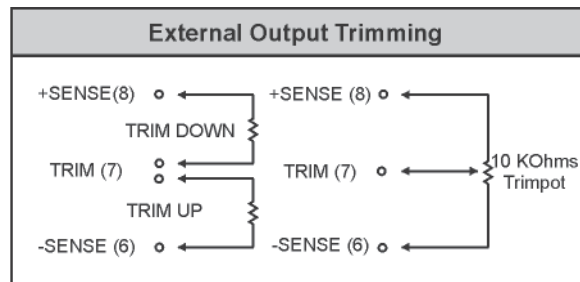
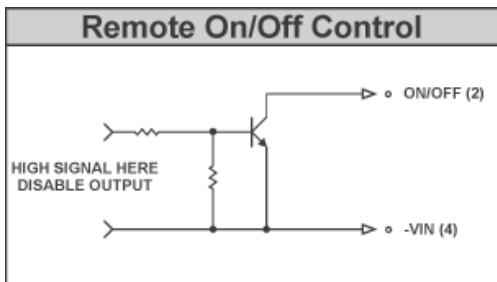
Case „Q“

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



PIN CONNECTIONS	
1	+INPUT
2	ON/OFF
3	-INPUT
4	-OUTPUT
5	-SENSE
6	TRIM
7	+SENSE
8	+OUTPUT

DIAGRAMS



NOTICE:
 The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies!
 Specifications can be changed without notice. The latest and most complete information can be found on our website.