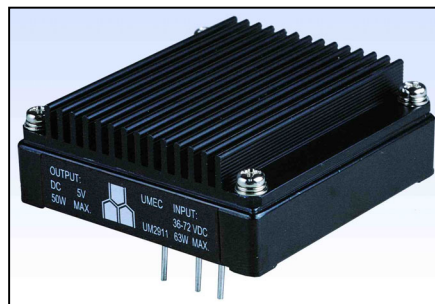


UM2900 SERIES

40 – 50 Watt DC/DC Converters

- ◆ 2:1 Input Range
- ◆ 40-50 W Isolated Output
- ◆ High-Density
- ◆ Remote on/off Control
- ◆ Design meet EN60950



SPECIFICATIONS

All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range, 24V 18-36V
 48V 36-72V
 Input Filter Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy¹, Single Output ±2% max.
 Triple Output +5V ±2% max.
 Auxiliaries ±5% max.
 Transient Response²
 Single, 25% step Load Change <500u sec.
 External Trim Adj. Range +10%
 Short Circuit Protection Continuous
 Line Regulation³ Single Output ±0.5% max.
 Triple Output +5V ±0.5% max.
 Auxiliaries ±2% max.
 Load Regulation⁴ Single Output ±1% max.
 Triple Output +5V ±2% max.
 Ripple and Noise, 20MHz BW⁵ 100mV p-p max.
 Auxiliaries 200mV p-p max.

GENERAL SPECIFICATIONS

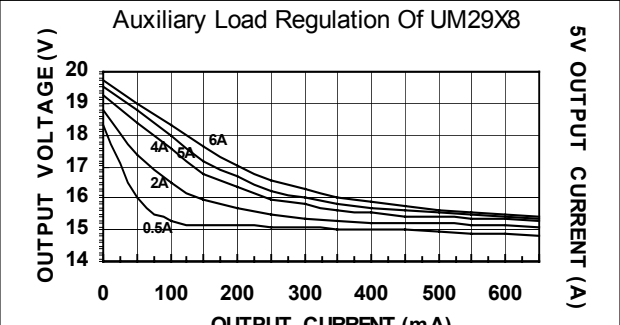
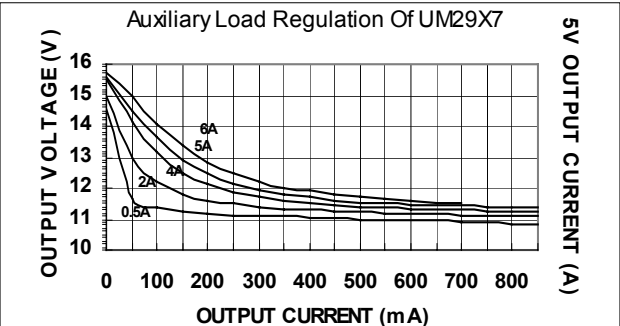
Efficiency See Table
 Isolation Voltage, Input/Output 1500VDC
 Input/Case 1500VDC
 Switch Frequency 250KHz
 Isolation Resistance 10⁸ Ohms min.
 Case Grounding Capacity Coupled to Input
 Operating Temperature Range -25°C to +100°C
 Storage Temperature Range -40°C to +105°C
 EMI/RFI Five-Sided Continuous Shield
 Dimensions 2.2*2.2*0.5 inches
 (55.88*55.88*12.7 mm)
 Case Material Black Coated metal
 Weight 80g

NOTE

1. Defined at the static output regulation at 25°C, including initial setting accuracy, Line voltage within stated limits and load current within stated limits.
2. di/dt=0.1A/1uS, Tc=25°C; load change=0.5 Io max. to 0.75 Io max. and 0.75 Io max. to 0.5 Io max.

3. Measured from high line to low line.
4. Single: from full load to 1/4 load, Triple: from full load to 1/2 load with all other outputs at rated load.
5. Measured with 0.1uF ceramic Cap. cross to each output. 10uF/25V Tantalum Cap to Auxiliaries output.
6. This converter require a minimum 10% loading on their primary output and 10% loading on each auxiliary output to maintain specified regulation. Operation under no-load conditions will not damage these devices; however they may not meet all listed specifications.
7. For triple outputs, common pins (5 and 8) should be connected externally.
8. Output V1 must return to common 1 and output V2 and V3 to common 2 and 3 respectively in order to meet noise and regulation specifications.

REMOTE ON/OFF CONTROL	
Logic Compatibility	CMOS or Open Collector TTL
Ec-ON	> +2.5 VDC or Open Circuit
Ec-OFF	< 0.8 VDC
Shutdown Idle Current	10mA
Control Common	Referenced to Input Minus



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