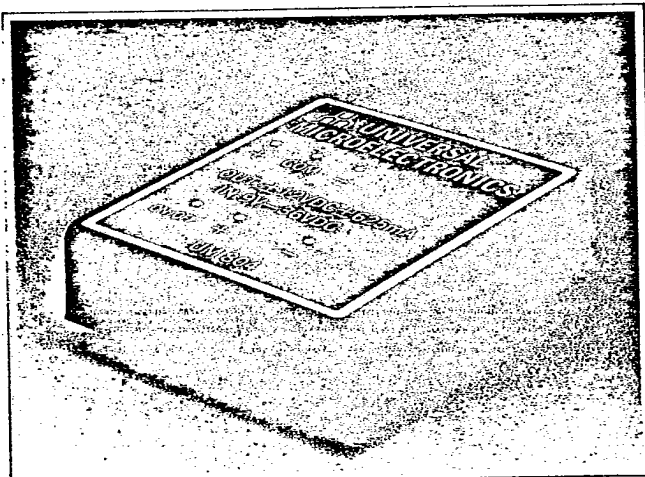


15 Watt DC-DC Converters

UM 800 SERIES



- 4:1 Input Range
- 15W Isolated Output
- Efficiency to 83%
- Remote On/Off Control
- 100 kHz Switching Frequency
- Six-Sided Shield

SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range, 24V	9-36V
48V	18-72V
Input Filter	PI Type
Reverse Voltage Protection ³	Internal Shunt Diode Use External Fuse

OUTPUT SPECIFICATIONS

Voltage Accuracy Single Output	± 1% max.
Dual + Output	± 1% max.
- Output	± 3% max.
Voltage Balance, Dual output at Full load	± 1.0% max.
Transient Response,	
Single, 25% step load change	< 500μ sec.
Dual, FL-1/2L ± 1% Error Band	< 500μ sec.
External Trim Adj. Range	± 10%
Ripple and Noise, 20MHz BW	10mV RMS, max. 75mV P-P max.
Temperature Coefficient	± 0.02%/°C, max.
Short Circuit Protection	Indefinite
Overvoltage Protection, 5V	6.8V
12V	15V
15V	18V
Line Regulation ¹	± 0.2% max.
Load Regulation ²	± 1% max.

GENERAL SPECIFICATIONS

Efficiency	See Table
Isolation Voltage	500 VDC min.
Isolation Resistance	10 ⁹ ohms min.
Switching Frequency	100kHz
Case Grounding	Capacity Coupled to Input
Operating Temperature Range	- 25°C to + 71°C
Storage Temperature Range	- 55°C to + 105°C
EMI/RFI	Six-Sided Continuous Shield
Dimensions	2.56 × 3.0 × 0.83 inches (65 × 76.2 × 21.1mm)
Case Material	Black Coated Copper with Non-Conductive Base

NOTE:

1. Measured from High Line to Low Line.
2. Measured from Full Load to 1/4 Full Load.
3. Determine the correct fuse size by calculating the maximum DC current drain at low line input, maximum load and then adding 20 to 25% to get the desired fuse size.

REMOTE ON/OFF CONTROL

Logic Compatibility	CMOS or Open Collector TTL
E _c -ON,	> + 5.5 VDC or Open Circuit
E _c -OFF,	< 1.8 VDC
Shutdown Idle Current	10 mA
Input Resistance	(E _{in} 0 VDC to 9 VDC) 100 KΩ
Control Common	Referenced to Input Minus

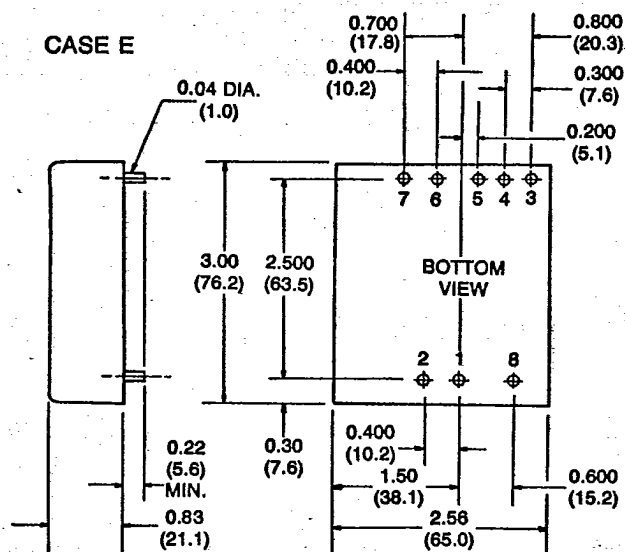


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MODEL NUMBER	INPUT VOLTAGE RANGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT ¹		% EFF	CASE
				NO LOAD	FULL LOAD		
UM801	9-36 VDC	5 VDC	3000 mA	20 mA	810 mA	77	E
UM802	9-36 VDC	12 VDC	1250 mA	20 mA	780 mA	80	E
UM803	9-36 VDC	15 VDC	1000 mA	20 mA	780 mA	80	E
UM804	9-36 VDC	±12 VDC	±625 mA	25 mA	750 mA	83	E
UM805	9-36 VDC	±15 VDC	±500 mA	25 mA	750 mA	83	E
UM811	18-72 VDC	5 VDC	3000 mA	20 mA	410 mA	78	E
UM812	18-72 VDC	12 VDC	1250 mA	20 mA	390 mA	80	E
UM813	18-72 VDC	15 VDC	1000 mA	20 mA	390 mA	80	E
UM814	18-72 VDC	±12 VDC	±625 mA	15 mA	365 mA	85	E
UM815	18-72 VDC	±15 VDC	±500 mA	15 mA	365 mA	85	E

NOTE: 1. Nominal Input Voltage 24 or 48 VDC.



ALL DIMENSIONS IN INCHES (MM)

Pin Connections		
Pin	Single	Dual
1	+ Input	+ Input
2	- Input	- Input
3	No Pin	+ Output
4	Output Trim	Common
5	No Pin	- Output
6	+ Output	No Pin
7	- Output	No Pin
8	Remote On/Off Control	

