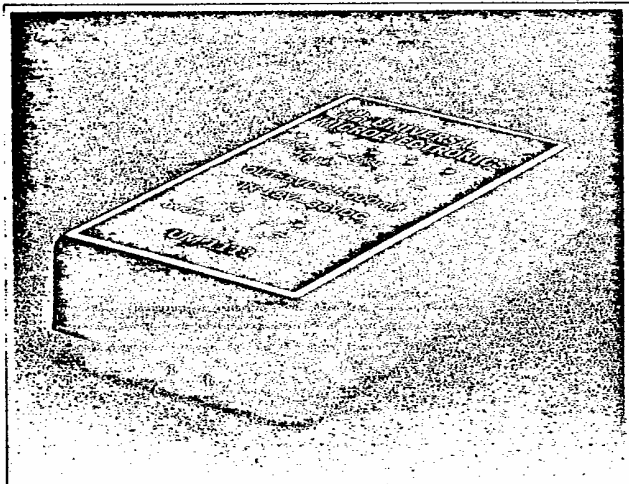


25 to 30 Watt DC-DC Converters

UM 1100 SERIES



- 2:1 Input Range
- 30W Isolated Output
- Efficiency to 84%
- 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, 12V	9-18V
24V	18-36V
48V	36-72V
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.
Triple 5V	± 1% max.
12V/15V	± 5% max.
-5V	± 2% 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 Regulation¹, Single/Dual output..... ± 0.2% max.
Tripple output..... ± 1% max.
Load Regulation², Single/Dual output..... ± 1% max.
Tripple output..... ± 5% max.

GENERAL SPECIFICATIONS

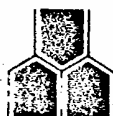
Efficiency.....	See Table
Isolation Voltage.....	500 VDC min.
Isolation Resistance.....	10 ⁹ ohms min.
Switching Frequency	100kHz
Case Grounding	Capacity Coupled to Input
Operating Temperature Range.....	- 25°C to + 71°C
Storage Temperature Range.....	- 55°C to + 105°C
EMI/RFI.....	Six-Sided Continuous Shield
Dimensions	2.56 × 4.56 × 0.83 inches (65 × 115.8 × 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.

REMOTED 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



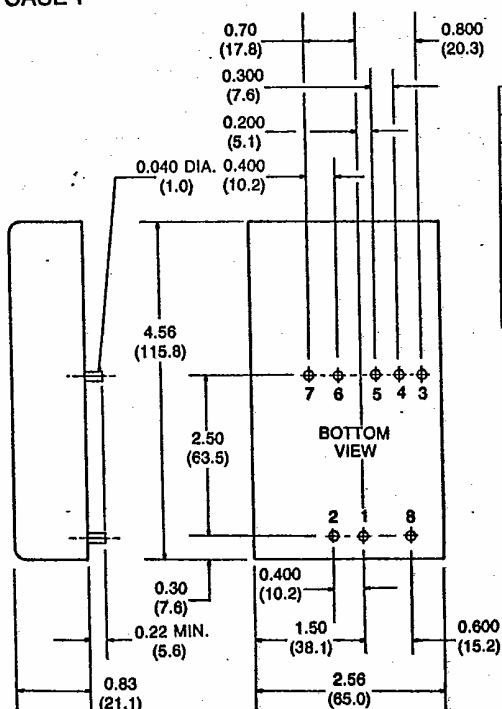
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MODEL NUMBER	INPUT VOLTAGE RANGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT ¹		% EFF	CASE
				NO LOAD	FULL LOAD		
UM1101	9-18 VDC	5 VDC	5000 mA	30 mA	2800 mA	75	F
UM1102	9-18 VDC	12 VDC	2500 mA	30 mA	3200 mA	78	F
UM1103	9-18 VDC	15 VDC	2000 mA	30 mA	3200 mA	78	F
UM1104	9-18 VDC	±12 VDC	±1250 mA	25 mA	3050 mA	82	F
UM1105	9-18 VDC	±15 VDC	±1000 mA	25 mA	3050 mA	82	F
UM1106	9-18 VDC	+5/±12 VDC	3000/±450 mA	50 mA	2900 mA	74	F
UM1107	9-18 VDC	+5/±15 VDC	3000/±350 mA	50 mA	2750 mA	77	F
UM1108	9-18 VDC	+5/+12/-5 VDC	3000/450/1000 mA	50 mA	2850 mA	74	F
UM1111	18-36 VDC	5 VDC	5000 mA	20 mA	1350 mA	77	F
UM1112	18-36 VDC	12 VDC	2500 mA	20 mA	1550 mA	80	F
UM1113	18-36 VDC	15 VDC	2000 mA	20 mA	1550 mA	80	F
UM1114	18-36 VDC	±12 VDC	±1250 mA	25 mA	1500 mA	84	F
UM1115	18-36 VDC	±15 VDC	±1000 mA	25 mA	1500 mA	84	F
UM1116	18-36 VDC	+5/±12 VDC	3000/±450 mA	40 mA	1350 mA	80	F
UM1117	18-36 VDC	+5/±15 VDC	3000/±350 mA	40 mA	1300 mA	82	F
UM1118	18-36 VDC	+5/+12/-5 VDC	3000/450/1000 mA	40 mA	1300 mA	81	F
UM1121	36-72 VDC	5 VDC	5000 mA	20 mA	670 mA	78	F
UM1122	36-72 VDC	12 VDC	2500 mA	20 mA	770 mA	81	F
UM1123	36-72 VDC	15 VDC	2000 mA	20 mA	770 mA	81	F
UM1124	36-72 VDC	±12 VDC	±1250 mA	15 mA	750 mA	83	F
UM1125	36-72 VDC	±15 VDC	±1000 mA	15 mA	750 mA	83	F
UM1126	36-72 VDC	+5/±12 VDC	3000/±450 mA	30 mA	650 mA	82	F
UM1127	36-72 VDC	+5/±15 VDC	3000/±350 mA	30 mA	650 mA	82	F
UM1128	36-72 VDC	+5/+12/-5 VDC	3000/450/1000 mA	30 mA	650 mA	81	F

NOTE: 1. Nominal Input Voltage 12, 24 or 48 VDC.

CASE F



ALL DIMENSIONS IN INCHES (MM)

Pin Connections			
Pin	Single	Dual	Triple
1	+ Input	+ Input	+ Input
2	- Input	- Input	- Input
3	+ SENSE	+ Output	+12V, 15V
4	Output Trim	Common	Common
5	- SENSE	- Output	-12V, 15V, 5V
6	+ Output	No Pin	+5V
7	- Output	No Pin	+5V com
8	Remote On/Off Control		

