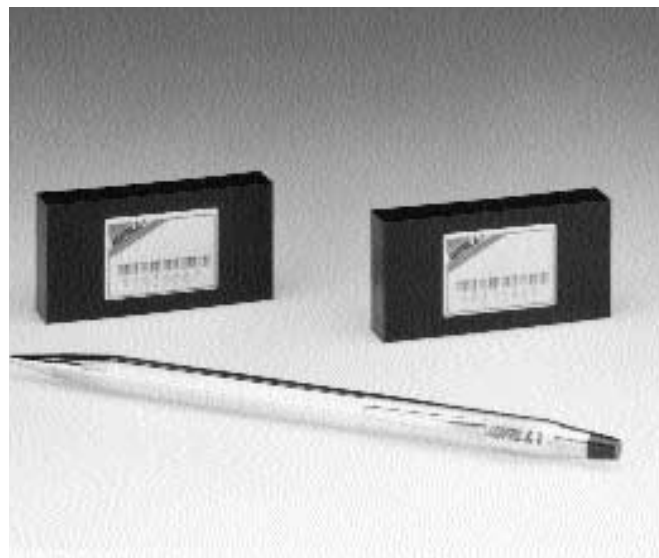


TO 15 WATTS - DM SERIES

2:1 Wide Input, Single and Dual Output

FEATURES

- Output Power Up to 15 Watts
- Wide Input Voltage Range (2:1)
- Industry Standard Pin-Out
- Input Filter for Low Reflected Ripple Current
- Single and Dual Outputs
- UL1950, cUL950, EN60950 and CE MARK



THE DM SERIES FROM WALL INDUSTRIES

The DM Series of DC/DC converters features units of 15 watts in a 1.0" x 2.0" x 0.40" typical package. The units are PC mountable and include an input filter for low reflected ripple, power foldback short circuit protection, up to 1600VDC input/output isolation and typical efficiencies of 80%. The DM Series also offers options for overvoltage protection and remote on/off via TTL logic.

SPECIFICATIONS: DM SERIES

All specifications apply @ +25 C ambient unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range.....9-18, 18-36, 36-75VDC
Input Filter.....Pi Network

OUTPUT SPECIFICATIONS

Output Current.....	see table
Voltage Accuracy.....	$\pm 1\%$ max.
Line Regulation (at full load).....	$\pm 1\%$ max.
Load Regulation (50-100% load)	
Single Output.....	$\pm 1\%$ max.
Dual Output.....	$\pm 2\%$ max.
Short Circuit Protection.....	power foldback
Ripple/Noise (20MHz BW).....	0.5 to 1% max.
	5V or less 50mV p-p
Transient Response (50% load step)	
.....	100 usec for 5V output

Due to advances in technology, specifications subject to change without notice.

GENERAL SPECIFICATIONS

Efficiency.....	80% typical
Isolation Voltage (input to output).....	1600VDC min.
Isolation Resistance (input to output).....	10^9 Ohms min.
Switching Frequency.....	Single 500kHz (typical)
	Dual 300 kHz (typical)

ENVIRONMENTAL SPECIFICATIONS

Operating Temp.-25 to +71°C ambient
”I” option -40 to +71°C ambient
 Storage Temperature.....-55 to +125°C
 Humidity (non-condensing).....20 - 95% R.H.
 Cooling.....Free Air Convection
 MTBF.....MIL217F 5.651 x 10⁹ Hours

PHYSICAL SPECIFICATIONS

Dimensions.....1.0 x 2.0 x0.40" typical
Weight.....1.8 oz.
Shielding.....Six-sided
Case Material.....nickel coated copper
.....non-conductive baseplate

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	Model Number
9-18	3.3	4.0	DM12S3.3-4000
	5	3.00	DM12S5-3000
	12	1.25	DM12S12-1250
	15	1.00	DM12S15-1000
	±5	1.50	DM12D5-1500
	±12	0.625	DM12D12-625
	±15	0.50	DM12D15-500
18-36	3.3	4.0	DM24S3.3-4000
	5	3.00	DM24S5-3000
	12	1.25	DM24S12-1250
	15	1.00	DM24S15-1000
	±5	1.50	DM24D5-1500
	±12	0.625	DM24D12-625
	±15	0.50	DM24D15-500
36-75	3.3	4.0	DM48S3.3-4000
	5	3.00	DM48S5-3000
	12	1.25	DM48S12-1250
	15	1.00	DM48S15-1000
	±5	1.50	DM48D5-1500
	±12	0.625	DM48D12-625
	±15	0.50	DM48D15-500

PIN CONNECTIONS

	Single	Dual
1	+Vin	+Vin
2	- Vin	- Vin
3	+ Vout	+ Vout
4	No Pin	Common
5	-Vout	-Vout

NOTES:

1. All case and pin to case dimensions reference only unless otherwise noted.
2. P.C. pins - 0.04" dia. x 0.20" long (min); typical five places.
3. Pin to pin tolerance $\pm 0.01"$. Pin diameter tolerance $\pm 0.005"$
4. Pin 4 - absent on singles.
5. Significant capacitive load on output may inhibit start-up and operation, consult factory.
6. All DC/DC converters should be externally fused on the front end for protection.
7. Consult factory for over-voltage protection and/or remote on/off options.

