



No Heatsink Required

90% Efficiency @5V

Low Profile

High Power Density

Built-in Inrush Limiting

Power Module Diagnostics

Remote On/Off

Fault Reset

No Electrolytic or Tantalum Capacitor

EMI Filtering

-40°C to +85°C Operating Temperature Range

The latest addition to Lambda's power module line, the RM Series high performance DC-DC converters offer the highest efficiencies available on the market. And since less energy is dissipated as heat, you'll achieve much greater system densities. This makes the RM Series ideal for telecommunication applications such as broad band distribution, ATM exchanges, LANs, multimedia systems and other applications where high efficiency and low profile are critical.

The features included in the RM Series allow for hot plug, EMI filtering, diagnostics and control, making the RM Series ideally suited for the highest performance systems.

Similar products

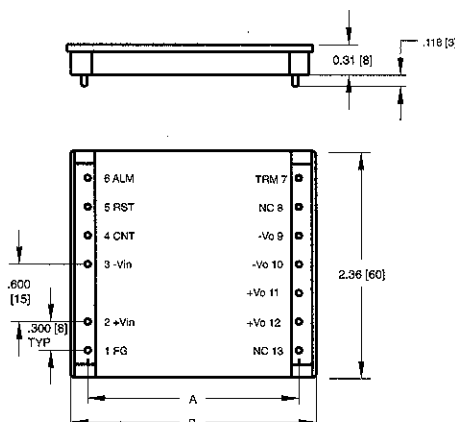
PH	Low Cost
PM	Lower Cost

Page

82
76

DC Input	36-75VDC.
Efficiency	RM30-48-2: 71% RM30-48-3.3: 80% RM30-48-5: 86% RM50-48-2: 80% RM50-48-3.3: 86% RM50-48-5: 90% RM100-48-2: 80% RM100-48-3.3: 86% RM100-48-5: 90%
Input Current	0.36A to 2.32A
Inrush Current Limiting	3.0A.
Output Voltage Adj Range ..	Outputs can be adjusted $\pm 10\%$ using resistive or voltage programming.
Line Regulation	20mV. No load to full load.
Load Regulation	40mV. No load to full load.
Ripple and Noise	100mV pk-pk. (Ext cap required).
Overcurrent Protection	Constant current limiting with automatic recovery (all models automatically shut down after 0.5-1.5 seconds in overcurrent condition with the output voltage less than the alarm level).
Overvoltage Protection	Internal circuitry latches off the power supply in the event of an overvoltage condition.
Cooling	No heatsink required. Forced air cooling is required: 1.5m/s or 295LFM.
Operating Temperature Range	Ambient operating temperature from -20°C to +85°C (-40°C startup guaranteed). Baseplate temperature from -20°C to +100°C.
Storage Temperature	-40°C to +105°C.
Temperature Coefficient	0.03% per °C.
Isolation	Input to output – 2500VDC. Output to chassis – 500VAC. Input to ground – 500VDC.
Monitoring Signals	Output alarm signal is activated by an overvoltage, overcurrent, over temperature or low output voltage condition. The alarm signal is an open collector type capable of sourcing 10mA. The signal goes high under a fault condition after 0.5-1.5 seconds.
Reset Signal	External connection between reset terminal and + output terminal resets the output after a shutdown condition.
Remote On/Off	Short between CNT terminal and +Vin enables output; open circuit disables output.
Safety Agency Approval	UL1950, CSA234, EN60950 and CE Mark.
Warranty	3 years.

VOLTAGE (V)	CURRENT (A)	POWER (W)	MODEL
2.0	6.0	12.0	RM30-48-2
2.0	10.0	20.0	RM50-48-2
2.0	20.0	40.0	RM100-48-2
3.3	6.0	19.8	RM30-48-3.3
3.3	10.0	33.0	RM50-48-3.3
3.3	20.0	66.0	RM100-48-3.3
5.0	6.0	30.0	RM30-48-5
5.0	10.0	50.0	RM50-48-5
5.0	20.0	100.0	RM100-48-5



DIMENSIONS:

MODEL	A	B
RM30	2.200 (56.0)	2.56 (65.0)
RM50	3.500 (89.0)	3.880 (98.0)
RM100	4.200 (107.0)	4.570 (116.0)

WEIGHT:

MODEL	LBS
RM30	.16
RM50	.22
RM100	.27