

ERM75 Series

75 Watts

Data Sheet

Total Power: 75 W
Input Voltage: 72 or 110 V
of Outputs: Single

SPECIAL FEATURES

- Small 57.9 x 36.8 x12.7 mm package
- Input Ranges 43 - 101 Vdc or 66 - 160 Vdc
- High Efficiency up to 92%
- No Minimum Load Requirement
- Operating Temp. Range -40 °C to +85 °C
- Reinforced Insulation 3000 VACrms
- Under-Voltage Shutdown
- Remote On/Off
- Metal Case with Isolated Baseplate
- Vibration and Thermal Shock to EN61373
- Safety meets EN60950-1 and Railway Standard EN50155 and EN50121-3-2

SAFETY

- cUL/UL 60950-1
- IEC/EN 60950-1
- IEC/EN 50155



Preliminary



Electrical Specifications

Input	
Input range:	43 - 101 Vdc; 66 - 160 Vdc
Efficiency:	92% @ 12 Vo
Output	
Voltage tolerance:	±1.0%
Line regulation:	±0.2%
Load regulation:	±0.3%
Noise/ripple:	24 V model: 150 mV, other models: 100 mV
Overload protection:	150% typ of Io max, hiccup
Short circuit protection:	Hiccup mode
Switching frequency:	320 KHz
Isolation	
I/O isolation:	Reinforced Insulation, 3000 Vac rms; I/Case. O/Case: 1500 Vdc
Insulation resistance:	1000 Mohm
Insulation capacitance:	3000 pF

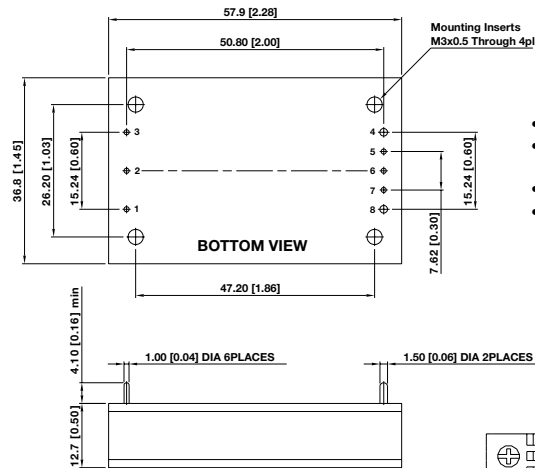
Environmental Specifications

Operating ambient temperature range:	-40 °C to +85 °C
Storage temperature:	-55 °C to +125 °C
Humidity:	5% to 95% non-condensing
MTBF:	209 Khrs calculated

Ordering Information

Input Voltage	Output	Efficiency @ Max Load	Max Power	Model Number
43 - 101 V	5 V @ 15 A	89%	75 W	ERM15A72
43 - 101 V	12 V @ 6.25 A	92%	75 W	ERM06B72
43 - 101 V	15 V @ 5 A	92%	75 W	ERM05C72
43 - 101 V	24 V @ 3.125 A	91%	75 W	ERM03H72
66 - 160 V	5 V @ 15 A	89%	75 W	ERM15A110
66 - 160 V	12 V @ 6.25 A	91%	75 W	ERM06B110
66 - 160 V	15 V @ 5 A	91%	75 W	ERM05C110
66 - 160 V	24 V @ 3.125 A	90%	75 W	ERM03H110

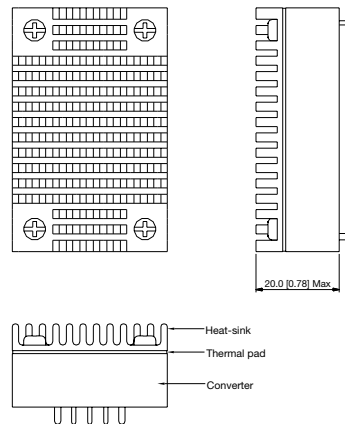
Mechanical Dimensions



- All dimensions in mm (inches)
- Tolerance: X.X±0.5 (X.XX±0.02)
X.XX±0.25 (X.XXX±0.01)
- Pin diameter $\varnothing 1.0 \pm 0.05$ (0.04±0.002)
- Pin diameter $\varnothing 1.5 \pm 0.05$ (0.06±0.002)

Pin Connections	
Pin	Function
1	+Vin
2	Remote On/Off
3	-Vin
4	-Vout
5	-Sense _(S)
6	Trim
7	+Sense _(S)
8	+Vout

Heatsink (Option -HS)



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