



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ERM50 Series

50 Watts

Data Sheet

Total Power: 50 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 temperature range -40 °C to +85 °C
- Reinforced insulation 3000 VAC rms
- Undervoltage shutdown
- Remote On/Off
- Metal case with isolated baseplate
- Vibration and thermal shock to EN61373
- Safety meets EN60950-1 and Railway Standard EN50155 (IEC60571) and EN50121-3-2
- EN45545-2 flammability

SAFETY

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



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

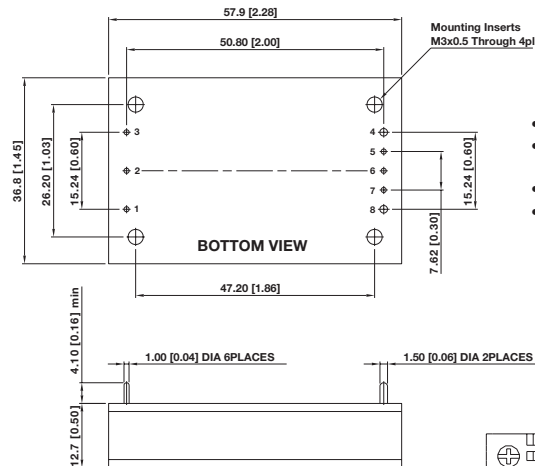
Environmental Specifications

Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% non-condensing
MTBF	472 Khrs calculated

Ordering Information

Input Voltage	Output	Efficiency @ Max Load	Max Power	Model Number
43 - 101 V	5 V @ 10 A	90%	50 W	ERM10A72
43 - 101 V	12 V @ 4.17 A	92%	50 W	ERM04B72
43 - 101 V	15 V @ 3.33 A	92%	50 W	ERM03C72
43 - 101 V	24 V @ 2.08A	91%	50 W	ERM02H72
66 - 160 V	5 V @ 10 A	90%	50 W	ERM10A110
66 - 160 V	12 V @ 4.17 A	91%	50 W	ERM04B110
66 - 160 V	15 V @ 3.33 A	92%	50 W	ERM03C110
66 - 160 V	24 V @ 2.08 A	91%	50 W	ERM02H110

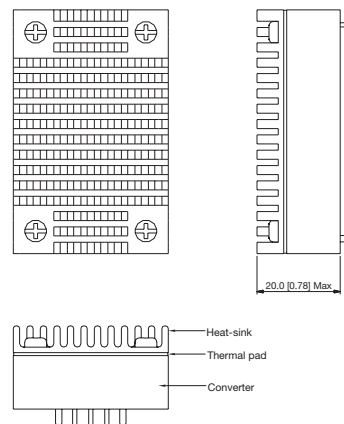
Mechanical Dimensions



- 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
6	Trim
7	+Sense
8	+Vout

Heatsink Option



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