

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 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 (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 lo 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				

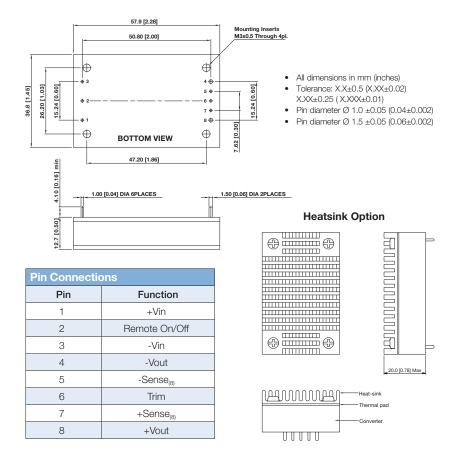
Environmental Specifications				
Operating ambient temperature range:	-40 °C to +85 °C			
Storage temperature:	-55 °C to +125 °C			
Humidity:	5% to 95% non-condensing			
MTBF:	472 Khrs calculated			



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		

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Mechanical Dimensions



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