

AEE Series

50 Watts

Data Sheet

Total Power: 50 Watts

Input Voltage: 12 V, 24 V or 48 V

of Outputs: Single

SPECIAL FEATURES

- Encapsulated
- Wide 4:1 input range
- 1" x 2" DIP package
- 1500 Vdc I/O isolation
- Single and Dual output
- OCP, OVP, OTP Protection
- Remote On/Off
- Operating Temp. Range –40°C to +85 °C (With derating)

SAFETY

- UL/cUL 60950-1 (CSA)
- IEC/EN 60950-1

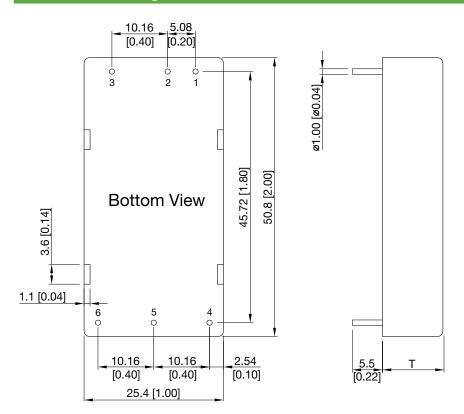


Electrical Specifications				
Input				
Input range:	9 to 36 Vdc; 18 to 75 Vdc			
Efficiency ² :	92% @ 12 Vo			
Output				
Voltage tolerance:	±1.0%			
Line regulation:	±0.5%			
Load regulation:	Single output: ±0.5%			
Noise/ripple:	3.3 Vo, 5 Vo: 100 mV Others: 150 mV			
OCP and S/C protection:	Hiccup			
Over voltage protection:	Latched			
OTP protection:	Latched			
Switching frequency:	285 KHz			
Temperature coefficient:	±0.02 /°C			
Isolation				
I/O isolation	1500 Vdc min.			
Insulation resistance:	1000 Mohm			
Insulation capacitance:	2200 pF			

Environmental Specifications		
Operating ambient temperature range: -40 °C to +85 °C		
Storage temperature: -50 °C to +125 °C		
Humidity:	5% to 95% (non-condensing)	
Calculated MTBF:	233 Khrs	



Mechanical Drawings



to to the

Pin Connectors		
Pin No.	Single Output	
1	+Vin	
2	-Vin	
3	Remote On/Off	
4	+Vout	
5	-Vout	
6	Trim	

T: 11.0 mm (0.43 inch) for 24 V Output Models T: 10.2 mm (0.40 inch) for Other Output Models

- All dimensions in mm (inches)
- Tolerance: X.X±0.25 (X.XX±0.01) X.XX±0.13 (X.XXX±0.005)

 • Pin diameter Ø 1.0 ±0.05 (0.04±0.002)

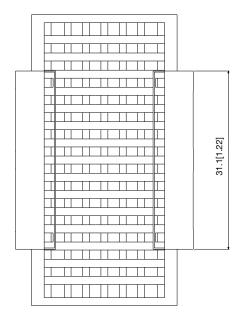
Physical Characteristics			
Case Size (24 V Output):	50.8 x 25.4 x 11 mm (2.0 x 1.0 x 0.43 inches)		
Case Size (Other Output):	50.8 x 25.4 x 10.2 mm (2.0 x 1.0 x 0.40 inches)		
Case Material:	Aluminium Alloy, Black Anodized Coating		
Base Material:	FR4 PCB (flammability to UL 94V-0 rated)		
Pin Material:	Copper Alloy with Gold Plate Over Nickel Subplate		
Weight:	30 g		

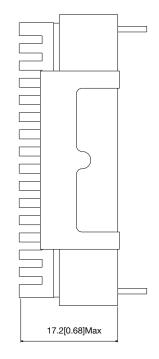
Ordering Information					
Model Number	Input Voltage	Output 1 Voltage	Maximum Power		
AEE10F18-L	9 - 36 V	3.3 V @ 10 A	33 W		
AEE10A18-L	9 - 36 V	5 V @ 10 A	50 W		
AEE04B18-L	9 - 36 V	12 V @ 4.17 A	50 W		
AEE03C18-L	9 - 36 V	15 V @ 3.33 A	50 W		
AEE02H18-L	9 - 36 V	24 V @ 2.08 A	50 W		
AEE10F36-L	18 - 75 V	3.3 V @ 10 A	33 W		
AEE10A36-L	18 - 75 V	5 V @ 10 A	50 W		
AEE04B36-L	18 - 75 V	12 V @ 4.17 A	50 W		
AEE03C36-L	18 - 75 V	15 V @ 3.33 A	50 W		
AEE02H36-L	18 - 75 V	24 V @ 2.08 A	50 W		

To order the converter with heatsink, please add a suffix –HS (e.g. AEE10F18-LHS) to order code.

Mechanical Drawings

Heatsink (Option -HS)

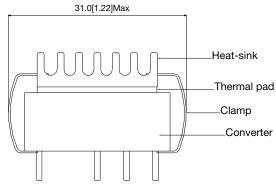




In the In

The advantages of adding a heatsink are:

- To help heat dissipation and increase the stability and reliability of DC/DC converters at high operating temperature atmosphere.
- 2. To upgrade the operating temperature of DC/DC converters, please refer to Derating Curve.



Physical Characteristics		
Heatsink Material:	Aluminum	
Finish:	Black Anodized Coating	
Weight:	9 g	

Notes:

- 1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
- 2. Warranty: 3
- 3. Label and logo appearance may vary from what is shown on mechanical drawings.

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