

AYA Series

3 Watts

Data Sheet

Total Power: 3 W
Input Voltage: 5, 12, 24, 48 V
of Outputs: Single and Dual

SPECIAL FEATURES

- Ultra compact DIP package
(14 x 14 x 8.0 mm; 0.55 x 0.55 x 0.31 inches)
- Efficiency up to 87%
- I/O-isolation 1500 VDC
- Wide 2:1 input range
- Operating temperature range
-40 °C to +85 °C (with derating)
- Three year product warranty
- UL/cUL/IEC/EN 60950-1 Safety Approval, CE Mark

SAFETY

- cUL/UL 60950-1 recognition
- CE Mark



Electrical Specifications

Input	
Input range	4.5 - 10 Vdc; 9 - 18 Vdc; 18 - 36 Vdc; 36 - 75 Vdc
Efficiency	87% @ 12 Vo
Output	
Voltage tolerance	±1.5%
Line regulation	±0.2%
Load regulation	1.0%
Noise/ripple	70 mV
Overload protection	170% typ of Io max, foldback
Short circuit protection	Continuous, automatic recovery
Switching frequency	100 kHz
Isolation	
I/O isolation	I/O: 1500 Vdc
Insulation resistance	1000 Mohm
Insulation capacitance	100 pF

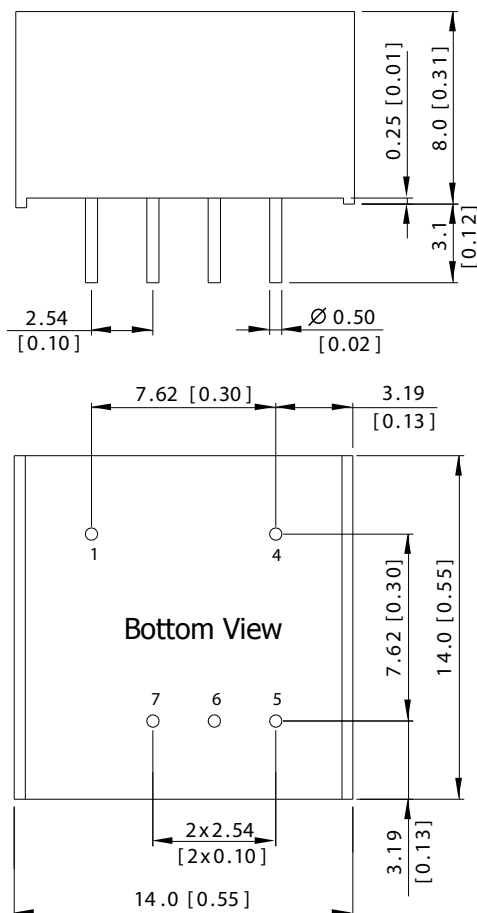
Environmental Specifications

Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-50 °C to +125 °C
Humidity	5% to 95% non-condensing
MTBF	3.5 Mhrs calculated

Ordering Information

Part Number	Input Voltage	Output Voltage	Output Current	Efficiency	Power
AYA01F05-L	4.5 - 10 Vdc	3.3 V	0.6 A	79%	2 W
AYA01A05-L	4.5 - 10 Vdc	5 V	0.6 A	81%	3 W
AYA01B05-L	4.5 - 10 Vdc	12 V	0.25 A	85%	3 W
AYA01C05-L	4.5 - 10 Vdc	15 V	0.2 A	85%	3 W
AYA01AA05-L	4.5 - 10 Vdc	±5 V	±0.3 A	82%	3 W
AYA01BB05-L	4.5 - 10 Vdc	±12 V	±0.125 A	84%	3 W
AYA01CC05-L	4.5 - 10 Vdc	±15 V	±0.1 A	85%	3 W
AYA01F12-L	9 - 18 Vdc	3.3 V	0.6 A	80%	2 W
AYA01A12-L	9 - 18 Vdc	5 V	0.6 A	83%	3 W
AYA01B12-L	9 - 18 Vdc	12 V	0.25 A	87%	3 W
AYA01C12-L	9 - 18 Vdc	15 V	0.2 A	87%	3 W
AYA01AA12-L	9 - 18 Vdc	±5 V	±0.3 A	84%	3 W
AYA01BB12-L	9 - 18 Vdc	±12 V	±0.125 A	86%	3 W
AYA01CC12-L	9 - 18 Vdc	±15 V	±0.1 A	87%	3 W
AYA01F24-L	18 - 36 Vdc	3.3 V	0.6 A	80%	2 W
AYA01A24-L	18 - 36 Vdc	5 V	0.6 A	83%	3 W
AYA01B24-L	18 - 36 Vdc	12 V	0.25 A	87%	3 W
AYA01C24-L	18 - 36 Vdc	15 V	0.2 A	87%	3 W
AYA01AA24-L	18 - 36 Vdc	±5 V	±0.3 A	84%	3 W
AYA01BB24-L	18 - 36 Vdc	±12 V	±0.125 A	86%	3 W
AYA01CC24-L	18 - 36 Vdc	±15 V	±0.1 A	87%	3 W
AYA01F48-L	36 - 75 Vdc	3.3 V	0.6 A	79%	2 W
AYA01A48-L	36 - 75 Vdc	5 V	0.6 A	82%	3 W
AYA01B48-L	36 - 75 Vdc	12 V	0.25 A	86%	3 W
AYA01C48-L	36 - 75 Vdc	15 V	0.2 A	86%	3 W
AYA01AA48-L	36 - 75 Vdc	±5 V	±0.3 A	82%	3 W
AYA01BB48-L	36 - 75 Vdc	±12 V	±0.125 A	85%	3 W
AYA01CC48-L	36 - 75 Vdc	±15 V	±0.1 A	85%	3 W

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 Ø 0.5 ±0.05 (0.02±0.002)

Pin Connections		
Pin	Single Output	Dual Output
1	-Vin	-Vin
4	+Vin	+Vin
5	+Vout	+Vout
6	No pin	Common
7	-Vout	-Vout

WORLDWIDE OFFICES

Americas

2900 South Diablo Way
Suite B100
Tempe, AZ 85282, USA
+1 888 412 7832

Europe (UK)

Ground Floor Offices, Barberry House
4 Harbour Buildings, Waterfront West
Brierley Hill, West Midlands
DY5 1LN, UK
+44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
+852 2176 3333

ARTESYN[™]
An Advanced Energy Company

www.artesyn.com

Artesyn Embedded Technologies, Artesyn Embedded Power, Artesyn, and all Artesyn related logos are trademarks and service marks of Artesyn Embedded Technologies, Inc. All other names and logos referred to are trade names, trademarks, or registered trademarks of their respective owners. Specifications are subject to change without notice. © 2019 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit www.artesyn.com/legal.

For more information: www.artesyn.com
For support: productsupport.ep@artesyn.com