

AIQ02R300-L

65 Watts

Data Sheet

Total Power: 65 Watts
(28 V @ 2.32 A)
Input Voltage: 390 V
of Outputs: Single

SPECIAL FEATURES

- 65 W Continuous power at 100°C baseplate temperature
- High efficiency: up to 90%
- Low output ripple and noise
- Positive Enable function
- Excellent transient response
- Safety isolated low voltage control and monitoring
- High reliability
- Wide input voltage range
- Adjustable output voltage
- Regulation to zero load
- EU Directive 2002/95/EC compliant for RoHS

SAFETY

- UL cUL 60950 Recognized
- TUV EN60950 Licensed
- CE CE Mark



Electrical Specifications

Input	
Input Range:	250 - 420 VDC
Input Surge:	500 V / 100 ms
Efficiency:	90% @ 28.0 V 65 W (typical)
Isolation Voltage:	2500 VDC
Output	
Line Regulation:	0.2 % typical
Load Regulation:	0.2 % typical
Noise / ripple:	3% Vo,
Transient response:	5% Vo deviation with 100% to 80% full load @ 0.1 A / μ S
Overvoltage protection:	30 - 31.5 V
Current limit:	130% Io maximum
Control	
Output Voltage Adjust:	90% - 105% (via external trim resistor)
Enable:	TTL compatible (positive enable logic)

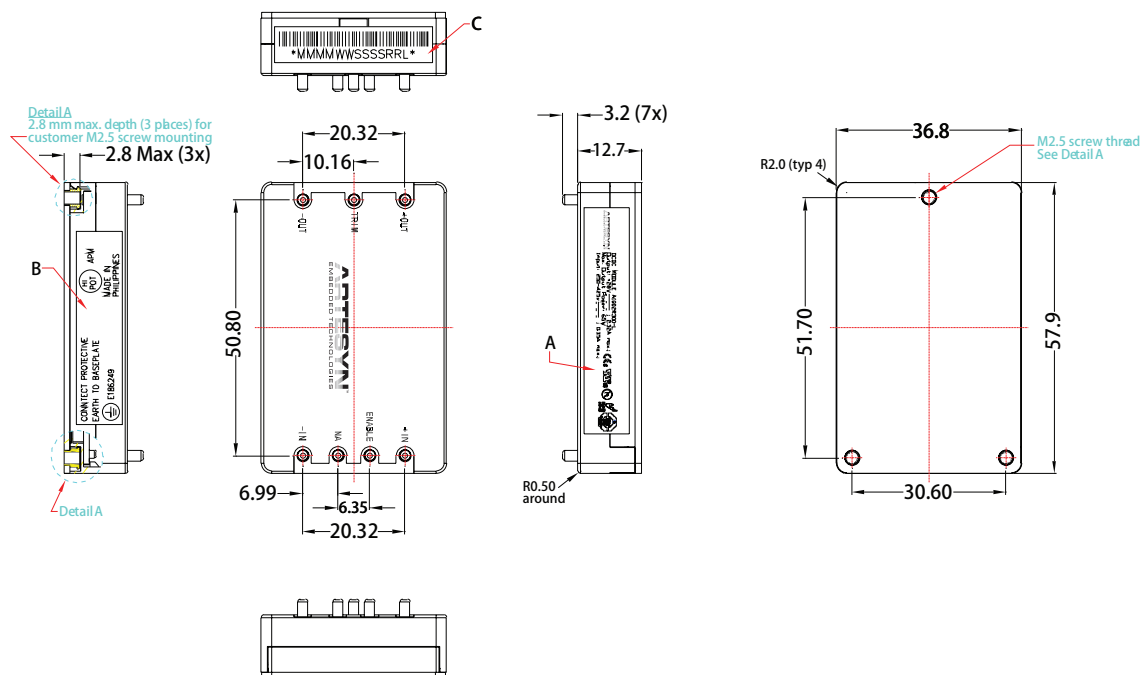
Environmental Specifications

Operating ambient temperature range:	-40 °C to +100 °C (baseplate temperature)
Storage temperature:	-55 °C to +125 °C (environment temperature)
Overtemperature protection:	120 °C max
Demonstrated MTTF (Telcordia SR-332)	4.15Mhrs

Ordering Information

Input Voltage	Output Voltage	Efficiency	Model Number
390 V	28 V @ 2.32 A	89% typ	AIQ02R300-L

Mechanical Drawings



Converter Pins

No.	Label
1	+In
2	Enable
3	NA
4	-In
5	-Out
6	Trim
7	+Out

WORLDWIDE OFFICES

Americas

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

Europe (UK)

Ground Floor Offices, Barbary 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

ARTESYNTM
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