

## 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 / $\mu$ 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)

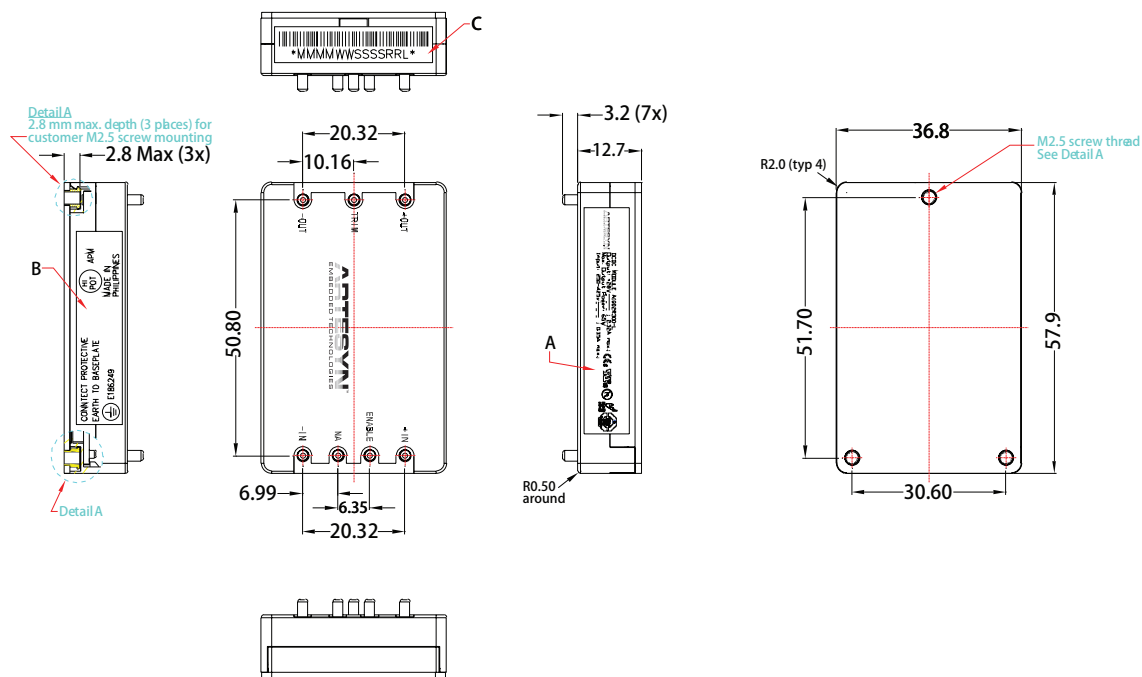
### Environmental Specifications

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

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