

AGQ100 Series

100 Watts

Data Sheet

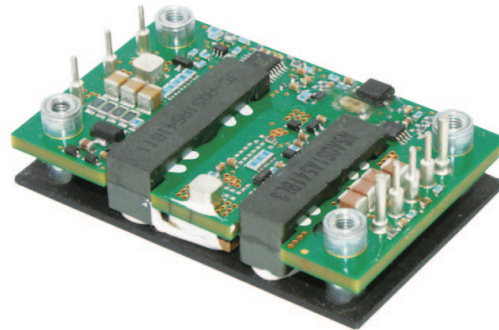
Total Power: 100 Watts
Input Voltage: 36 - 75 V
of Outputs: Single

SPECIAL FEATURES

- 2:1 Wide input range
- Optimised for high density, small space applications
- Low ripple and noise
- Fixed switching frequency
- High efficiency
- High capacitive load capability
- Basic insulation system
- Openframe structure with baseplate option

SAFETY

- UL, cUL: UL60950
- TUV/CE: IEC/EN60950



Electrical Specifications

| Input | |
|------------------------------|--|
| Input range: | 36 - 75 VDC |
| Efficiency ² : | 93% @ 5Vo |
| Output | |
| Voltage tolerance: | +/-1% to +/- 1.6% |
| Line regulation: | 1mV |
| Load regulation: | Single output: 1mV |
| Noise/ripple: | 3.3 Vo: 1.2V, 1.5V: 35mV; 1.8V, 2.5V: 40mV; 3.3V: 50mV |
| Over voltage protection | Hiccup |
| Over temperature protection: | Auto-restart |
| Switching frequency: | 310KHz |
| Temperature coefficient: | ±0.02/°C |
| Isolation | |
| I/O isolation: | 2000 VDC min. |

Environmental Specifications

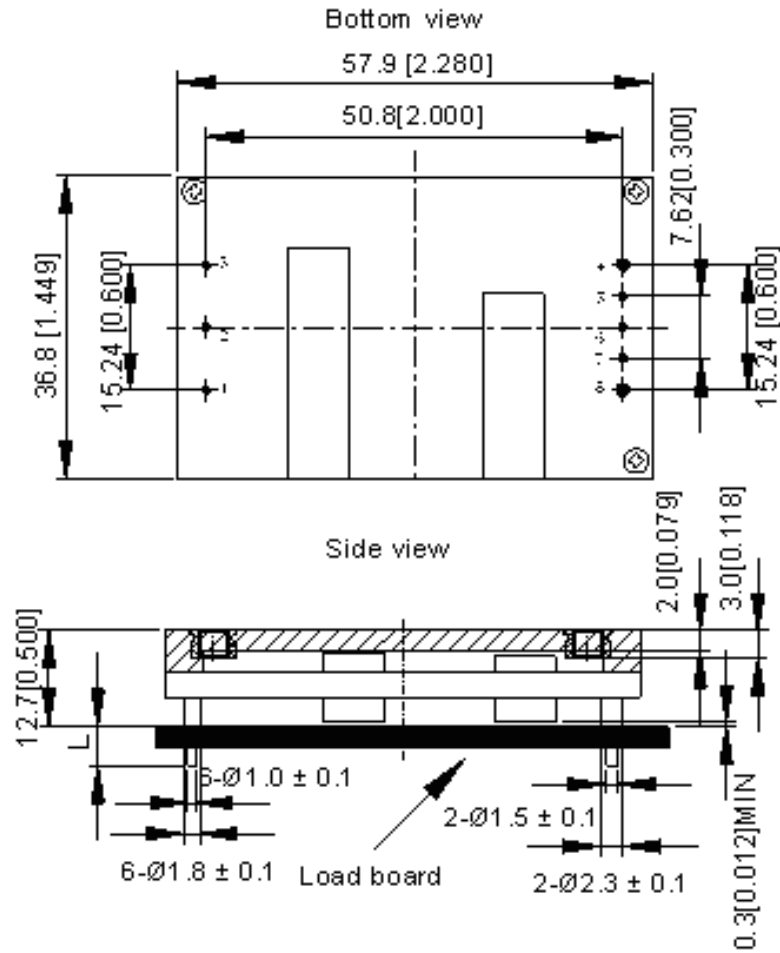
| | |
|--------------------------------------|----------------------------|
| Operating ambient temperature range: | -40°C to +85 °C |
| Storage temperature: | -55 °C to +125 °C |
| Humidity: | 5% to 95% (non-condensing) |
| MTBF: | 2 Million hours |
| RoHS Compliant | |

Ordering Information

| Model number | Input voltage | Output voltage | Power |
|--------------------|---------------|----------------|-------|
| AGQ100-48S1V2-4 | 36 - 75 Vin | 1.2V @ 30A | 36W |
| AGQ100-48S1V2-6 | 36 - 75 Vin | 1.2V @ 30A | 36W |
| AGQ100-48S1V2B-4 | 36 - 75 Vin | 1.2V @ 30A | 36W |
| AGQ100-48S1V2P-4 | 36 - 75 Vin | 1.2V @ 30A | 36W |
| AGQ100-48S1V2PB-4 | 36 - 75 Vin | 1.2V @ 30A | 36W |
| AGQ100-48S1V5-4 | 36 - 75 Vin | 1.5V @ 25A | 37.5W |
| AGQ100-48S1V5B-4 | 36 - 75 Vin | 1.5V @ 25A | 37.5W |
| AGQ100-48S1V5P-4 | 36 - 75 Vin | 1.5V @ 25A | 37.5W |
| AGQ100-48S1V5PB-4 | 36 - 75 Vin | 1.5V @ 25A | 37.5W |
| AGQ100-48S1V8-4 | 36 - 75 Vin | 1.8V @ 25A | 45W |
| AGQ100-48S1V8-6 | 36 - 75 Vin | 1.8V @ 25A | 45W |
| AGQ100-48S1V8B-4 | 36 - 75 Vin | 1.8V @ 25A | 45W |
| AGQ100-48S1V8P-4 | 36 - 75 Vin | 1.8V @ 25A | 45W |
| AGQ100-48S1V8PB-4 | 36 - 75 Vin | 1.8V @ 25A | 45W |
| AGQ100-48S2V5-6 | 36 - 75 Vin | 2.5V @ 25A | 62.5W |
| AGQ100C-48S3V3-6L | 36 - 75 Vin | 3.3V @ 25A | 82.5W |
| AGQ100C-48S3V3B-6L | 36 - 75 Vin | 3.3V @ 25A | 82.5W |
| AGQ100-48S12-6L | 36 - 75 Vin | 12V @ 8.33A | 100W |
| AGQ100-48S12B-6L | 36 - 75 Vin | 12V @ 8.33A | 100W |

- Standard version is negative enable
- "-6" = 3.8mm pin length
- "-4" = 4.8mm pin length
- "-L" = Rohs6 compliance
- "-P" = Positive enable

Mechanical Drawings



Unit: mm [inch]

Bottom view: pin on upside

Tolerance: X.Xmm ± 0.5mm [X.X in. ± 0.02in.]

X.XXmm ± 0.25mm [X.XX in. ± 0.01in.]

Pin Assignments

| Pin # | Function |
|-------|----------|
| 1 | +V in |
| 2 | Enable |
| 3 | -V in |
| 4 | -V out |
| 5 | -Sense |
| 6 | Trim |
| 7 | +Sense |
| 8 | +V out |

Notes:

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

WORLDWIDE OFFICES

Americas

2900 S.Diablo Way
 Tempe, AZ 85282
 USA
 +1 888 412 7832

Europe (UK)

Waterfront Business Park
 Merry Hill, Dudley
 West Midlands, DY5 1LX
 United Kingdom
 +44 (0) 1384 842 211

Asia (HK)

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



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