

## 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 <sup>2</sup> :	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

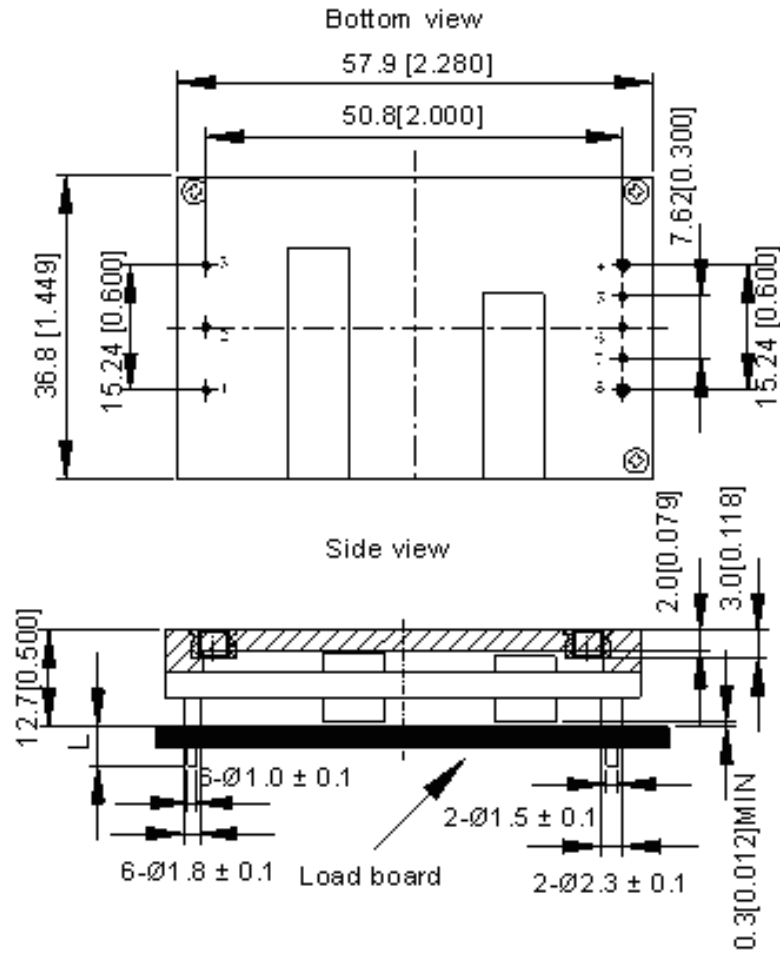
Operating ambient temperature range:	-40°C to +85 °C
Storage temperature:	-55 °C to +125 °C
Humidity:	5% to 95% (non-condensing)
MTBF:	2 Million hours
RoHS Compliant	

### 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  $\pm$  0.5mm [X.X in.  $\pm$  0.02in.]

X.XXmm  $\pm$  0.25mm [X.XX in.  $\pm$  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 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](http://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](http://www.artesyn.com/legal).

For more information: [www.artesyn.com](http://www.artesyn.com)  
For support: [productsupport.ep@artesyn.com](mailto:productsupport.ep@artesyn.com)