

## AGQ100 Series

100 Watts

### Data Sheet

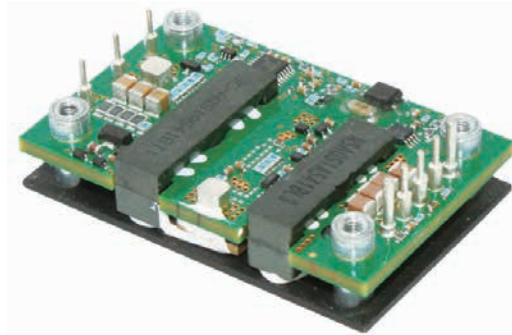
**Total Power:** 100 Watts  
**Input Voltage:** 36 - 75 V  
**# of Outputs:** Single

### 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

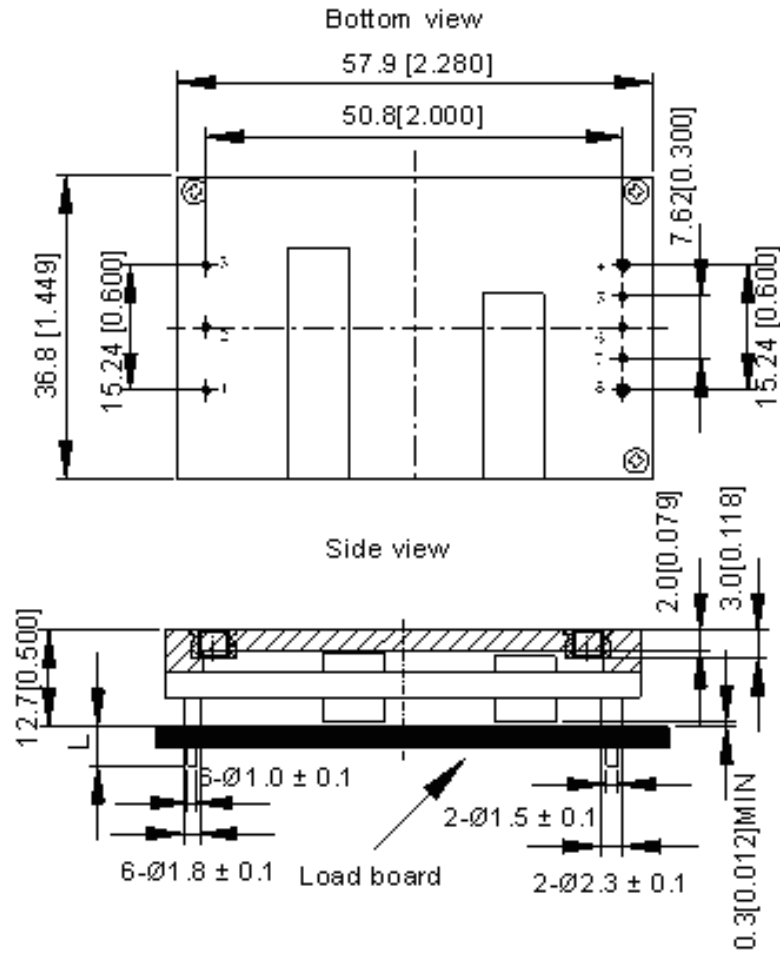
Operating ambient temperature range:	-40°C to +85 °C
Storage temperature:	-55 °C to +125 °C
Humidity:	5% to 95% (non-condensing)
MTBF:	2 Million hours
RoHS Compliant	

### 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

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