

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

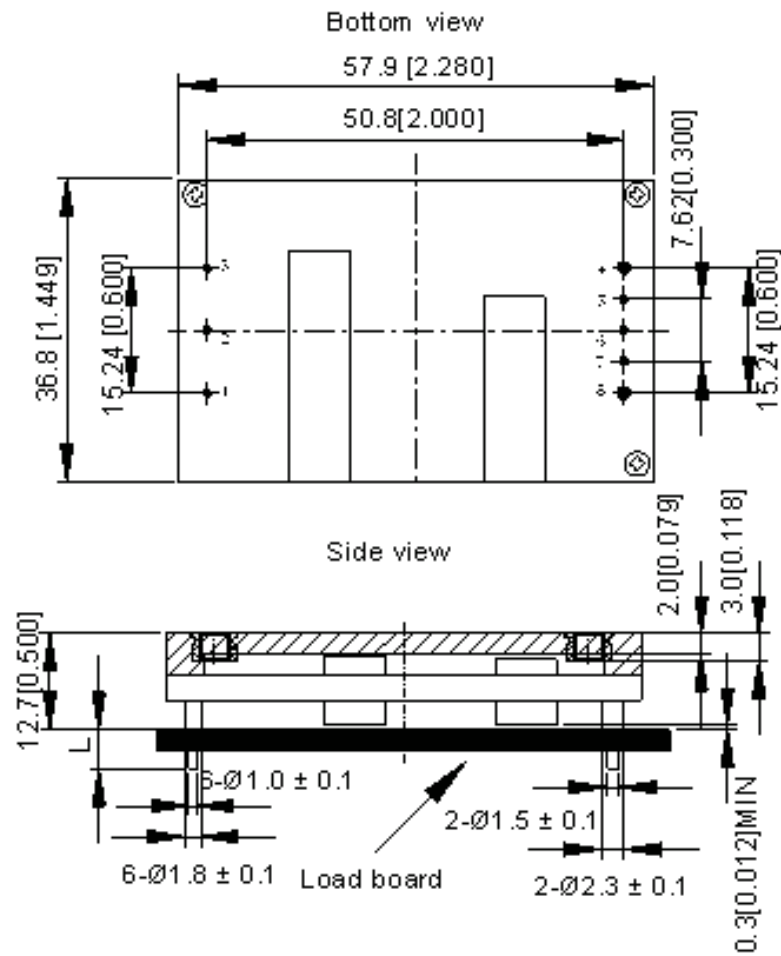
Operating ambient temperature range:	-40°C to +85 °C
Storage temperature:	-55 °C to +125 °C
Humidity:	5% to 95% (non-condensing)
MTBF:	2 Million hours
RoHS Compliant	

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 $\pm$ 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.

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