

ARTESYN AGQ300 SERIES

72 Watts



The AGQ300-48S1V2 series quarter-brick isolated DC-DC converter produces a single fully regulated output voltage of 1.2 Vdc. Rated at 72 watts, the converter can deliver up to 60 amps output current. It has a wide 2:1 input range of 36 to 75 Vdc and is designed primarily for use with standard 48 V telecommunications equipment supplies.

DATA SHEET

Total Power:

72 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	85%
Output	
Voltage tolerance	+/-1.6%
Line regulation	5 mV
Load regulation	10 mV
Noise/ripple	100 mV
Over voltage protection	Hiccup
Over temperature protection	Auto-restart
Switching frequency	300 KHz
Temperature coefficient	±0.02/°C
Isolation	
I/O isolation	2000 VDC min.

ENVIRONMENTAL SPECIFICATIONS

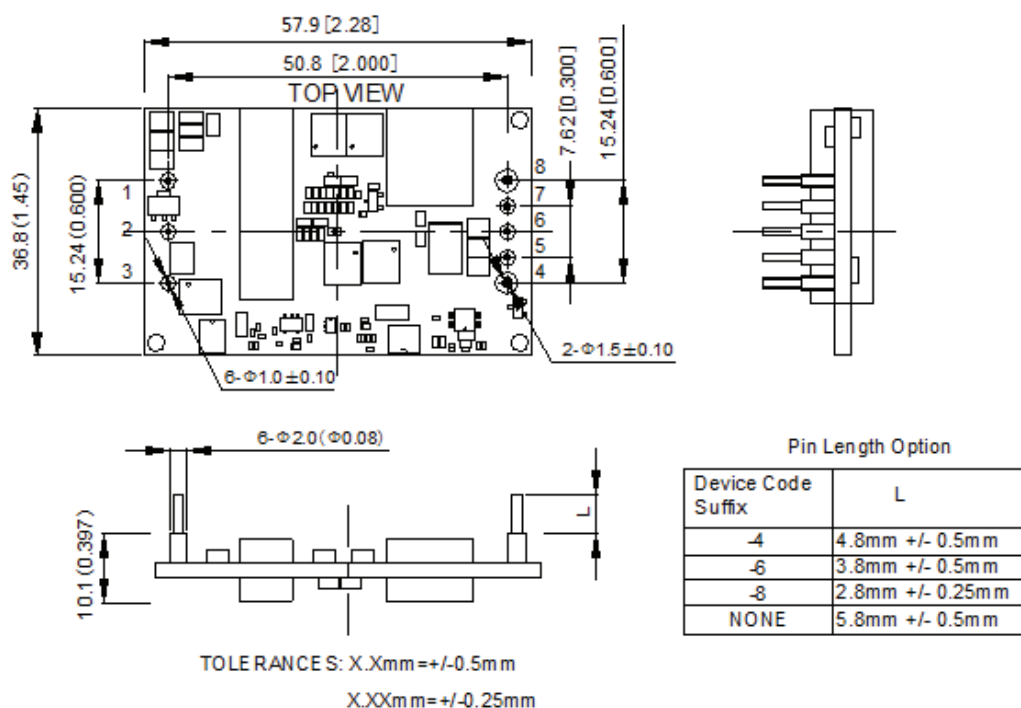
Operating ambient temperature range:	-40°C to +85 °C
Storage temperature:	-55 °C to +125 °C
Humidity:	5% to 95% (non-condensing)
MTBF:	2 Million hours
RoHS Compliant	

ORDERING INFORMATION

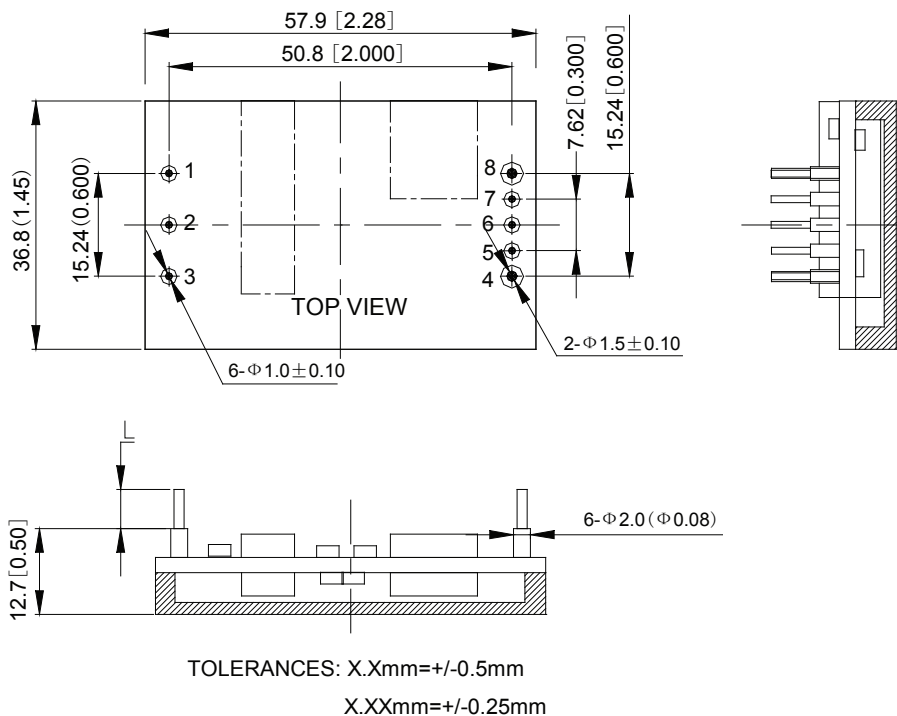
Model number	Input voltage	Output voltage	Power
AGQ300-481V2-4L	36 - 75 Vin	1.2 V @ 60 A	72 W
AGQ300-48S1V2P-4L	36 - 75 Vin	1.2 V @ 60 A	72 W
AGQ300-48S1V2B-4L	36 - 75 Vin	1.2 V @ 60 A	72 W
AGQ300-48S1V2PB-4L	36 - 75 Vin	1.2 V @ 60 A	72 W

- Standard version is negative enable
- "-4" = 4.8 mm pin length
- "-L" = RoHS 6 compliance
- "-P" = Positive enable
- "-B" = Baseplate

MECHANICAL DRAWING - OPEN FRAME MODULE



MECHANICAL DRAWING - BASEPLATE MODULE



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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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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