

## AGQ500 Series

500 Watts

### Data Sheet

**Total Power:** 500 Watts  
**Input Voltage:** 36 - 75 Vdc  
**# of Outputs:** Single

### SPECIAL FEATURES

- Delivers up to 10 A output current
- Ultra-high efficiency 94% typ. at full load
- Wide input range: 36V ~ 75V
- Excellent thermal performance
- No minimum load requirement
- Basic isolation
- High power density
- Low output noise
- Trim function: 50% ~ 114%

### SAFETY

- UL, cUL: UL62368
- TUV/CE: IEC/EN62368



### Electrical Specifications

Input	
Input range	36 - 75 VDC
Efficiency	95% (50% load condition)
Output	
Voltage tolerance	+/-1%
Line regulation	0.5%
Load regulation	0.5%
Noise/ripple	100 mV
Over voltage protection	Latch
Over temperature protection	Auto-restart
Switching frequency	340 KHz
Temperature coefficient	±0.02/°C
Isolation	
I/O isolation	2250 Vdc (input to output)

### Environmental Specifications

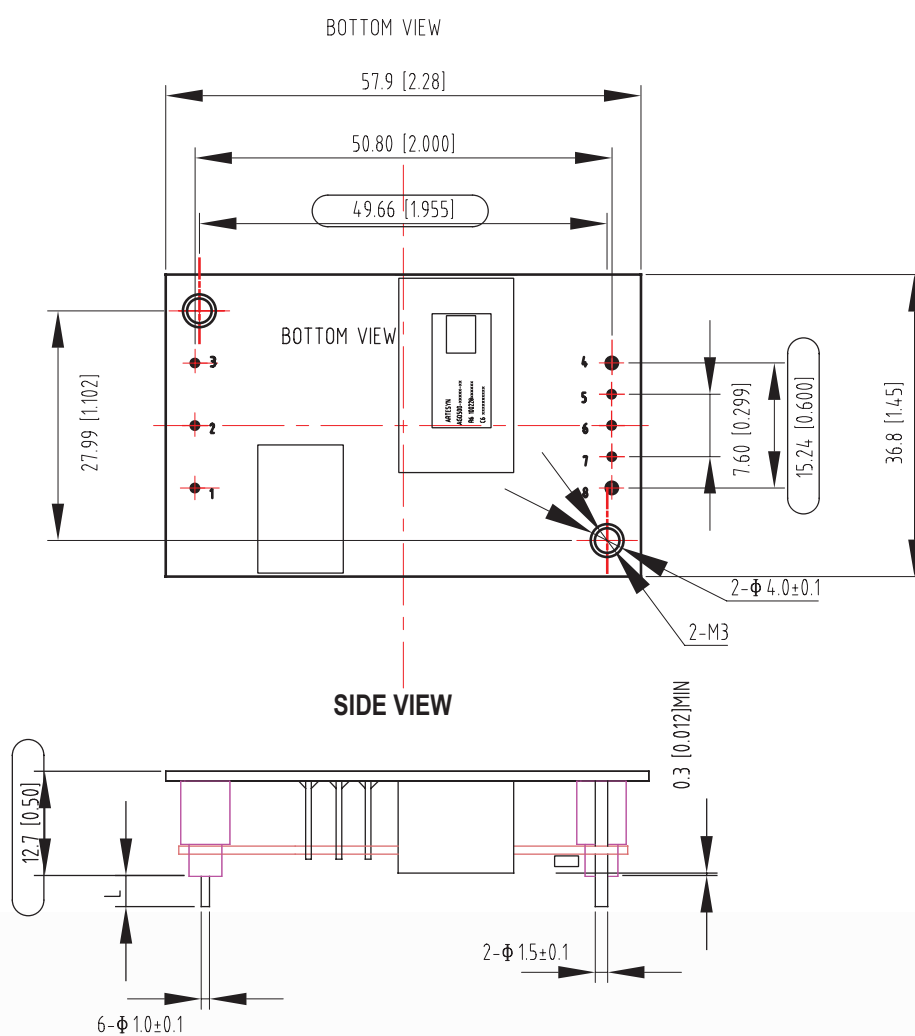
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	1.5 Million hours
RoHS Compliant	Yes

## Ordering Information

Model number	Input voltage	Output voltage	Power
AGQ500-48S50-6L	36 - 75 Vin	50 V @ 10 A	500 W
AGQ500-48S50P-6L	36 - 75 Vin	50 V @ 10 A	500 W

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

## Mechanical Drawing



UNIT: mm [inch]

L= 3.8 ± 0.5 mm

TOLERANCE: X.X mm ± 0.5 mm [X.XX in. ± 0.02 in.]

X.XX mm ± 0.25 mm [X.XXX in. ± 0.01 in.]

Notes: Dimensions within the box are critical dimensions.

## Pin Assignments

Pin #	Name	Function
1	Vin+	Positive input voltage
2	CNT	Remote ON/OFF control
3	Vin-	Negative input voltage
4	Vo-	Negative output voltage
5	S-	Negative output sense
6	Trim	Output voltage trim
7	S+	Positive output sense
8	Vo+	Positive output voltage

### 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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