

# **Data Sheet**

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

# **SPECIAL FEATURES**

- Delivers up to 500 W output current
- Ultra-high efficiency 94% typ. at full load
- Wide input range: 36 V ~ 75 V
- Excellent thermal performance
- No minimum load requirement
- Basic isolation
- High power density
- Low output noise
- Wide trim range

# **SAFETY**

UL, cUL: UL62368TUV/CE: IEC/EN62368

# **AGQ500 Series**

500 Watts



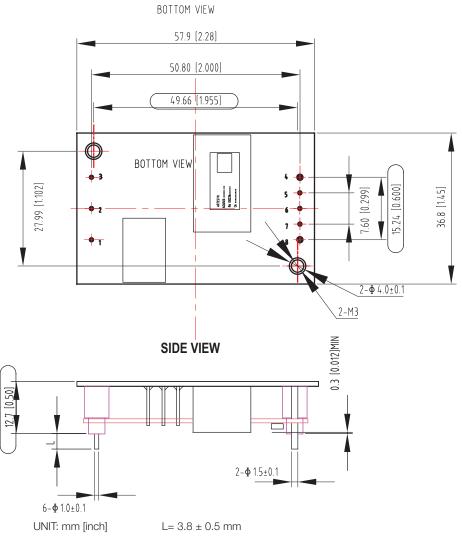


Electrical Specifications				
Input				
Input range	36 - 75 VDC			
Efficiency (50% load condition)	95% (AGQ500-48S50); 94% (AGQ500-48S28)			
Output				
Output voltage	50 Vdc @ 10 A (AGQ500-48S50); 28 Vdc @ 18 A (AGQ500-48S28)			
Voltage tolerance	+/-1%			
Line regulation	0.5%			
Load regulation	0.5%			
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			



# **Mechanical Drawing**



TOLERANCE: X.X mm  $\pm$  0.5 mm [X.XX in.  $\pm$  0.02 in.] X.XX mm  $\pm$  0.25 mm [X.XXX in.  $\pm$  0.01 in.]

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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				

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#### 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.

Ordering Information						
Model number	Input voltage	Output voltage	Power			
AGQ500-48S28-6L	36 - 75 Vin	28 V @ 18 A	500 W			
AGQ500-48S28P-6L	36 - 75 Vin	28 V @ 18 A	500 W			
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

# **WORLDWIDE OFFICES**

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