

# **ADQ600 Series**

Data Sheet 600 Watts

**Total Power:** 600 Watts **Input Voltage:** 40 - 60 V **# of Outputs:** Single

## **SPECIAL FEATURES**

- Delivering up to 50 A output
- Ultra-high efficiency 95.6% typical at full load
- Wide input range: 40 V 60 V
- Excellent thermal performance
- No minimum load requirement
- Basic isolation
- High power density
- Low output noise
- RoHS 6 compliant
- Remote control function (negative logic)
- Input under voltage lockout
- Output over current protection
- Output over voltage protection
- Over temperature protection
- Industry standard quarter-brick pinout outline
- Open-frame and baseplated
- Pin length option: 3.8 mm

## **SAFETY**

UL, cUL: UL60950TUV/CE: IEC/EN60950





Electrical Specifications			
Input			
Input voltage (continuous)	63 V		
Input voltage (non-continuous)	80 V 100 mSec		
Input over voltage protection	63 Vdc		
Input range	40 - 60 VDC		
Efficiency	95.6% @ 12Vo		
Output			
Output voltage	12 V		
Output current	50 A		
Voltage tolerance	+/-1%		
Line regulation	0.1%		
Load regulation	3.3%		
Noise/ripple	200 mV		
Over voltage protection	Hiccup at between 13.6 V and 16 V		
Over temperature protection	Auto-restart		
Switching frequency	175 KHz		
Temperature coefficient	±0.02/°C		
Isolation			
I/O isolation	1500 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	1.5 Million hours	
RoHS Compliant		

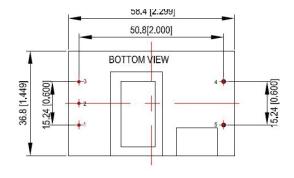
to the the

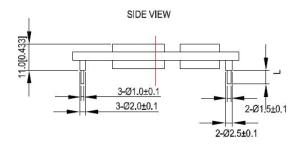
Ordering Information				
Model number	Input voltage	Output voltage	Power	
ADQ600-48S12-6L	40 - 60 V	12 V @ 50 A	600 W	
ADQ600-48S12B-6L	40 - 60 V	12 V @ 50 A	600 W	

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

## **Mechanical Drawings**

## **Open Frame Module:**



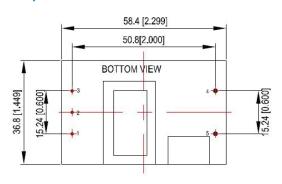


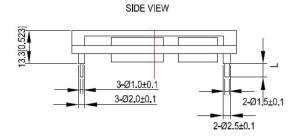
UNIT: mm[inch]

BOTTOM VIEW: pin on upside

TOLERANCE: X.Xmm±0.5mm[X.X in.±0.02in.] X.XXmm±0.25mm[X.XX in.±0.01in.]

## **Baseplate Module:**





UNIT: mm[inch]

BOTTOM VIEW: pin on upside

TOLERANCE: X.Xmm±0.5mm[X.X in.±0.02in.] X.XXmm±0.25mm[X.XX in.±0.01in.]

Pin Assignments			
Pin #	Function		
1	+Vin		
2	Remote On/Off		
3	-Vin		
4	-Vout		
5	+Vout		

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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.

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