

## AGF800-48D Series

800 Watts

### Data Sheet

**Total Power:** 800 Watts  
**Input Voltage:** 36 - 75 V  
**# of Outputs:** Dual

### SPECIAL FEATURES

- 2:1 wide input range
- Delivering up to 23.3 A for 30 V and 20 A for 5 V
- Extra wide trim range
- Optimised for high density, small space applications
- Low ripple and noise
- Fixed switching frequency
- Super high efficiency
- High capacitive load capability
- Basic insulation system
- Aluminium substrate
- Power good
- Auxiliary power rail

### SAFETY

- UL 60950-1
- IEC60950 -1



### Electrical Specifications

Input	
Input range	36 - 75 Vdc
Efficiency	93.5%
Max input voltage - Continuous	80 Vdc
Max input voltage - Non-continuous	100 Vdc for 100 mSec
Output	
Output 1 voltage	30 V nominal
Output 1 current	23.3 A
Output 1 trim range	22 V - 33 V
Output 2 voltage	5 V nominal
Output 2 current	20 A
Output 2 trim range	3 V - 6V
Voltage tolerance	+/-1%
Line regulation	0.5%
Load regulation	30 Vo: 0.5% 5 Vo: 1%
Noise/ripple	30 Vo: 250 mV 5 Vo: 100 mV
OVP, OCP	Hiccup
Overtemperature protection	Auto restart
Switching frequency	290 KHz
Temperature co-efficient	±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	2.8 Million hours
RoHS Compliant	

### Ordering Information

Model number	Input voltage	Output voltage	Power
AGF800-48D3005-6L	36 - 75 Vin	30 V @ 23.3 A 5 V @ 20 A	800 W

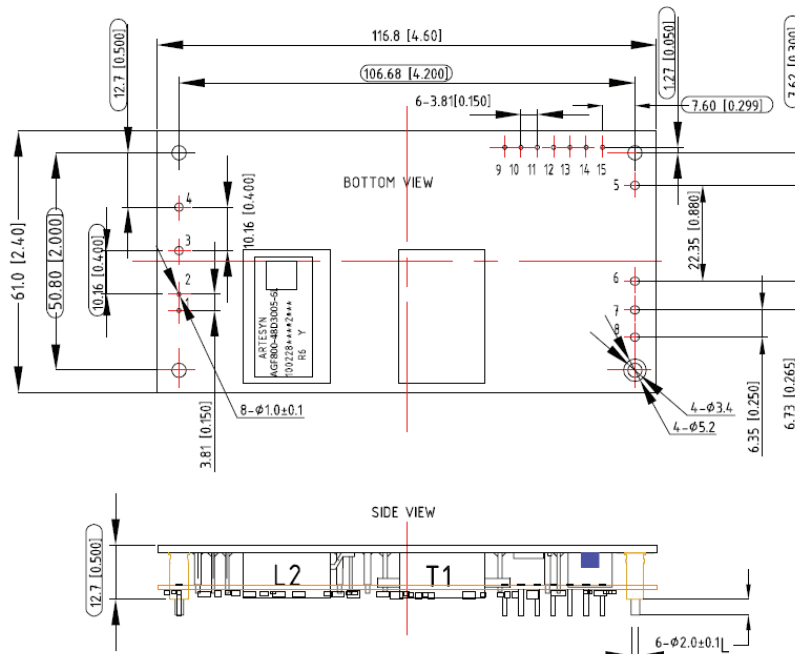
Standard version is negative enable

“-6” = 3.8 mm pin length

“-L” = RoHS 6 compliance

“/M” = Thread mounting hole

### Mechanical Drawings



UNIT: mm[inch]      PIN: L=3.8±0.25mm  
 TOLERANCE: X.Xmm±0.5mm[X.XX in±0.02in.]  
 X.XXmm±0.25mm[X.XXX in±0.01in.]

## Pin Assignments

Pin #	Name	Function
1	+On/Off	Remote control
2	-On/Off	Remote control
3	Vin+	Positive input voltage
4	Vin-	Negative input voltage
5	Vo1+	Positive output voltage of output 1
6	Vo1-	Negative output voltage of output 1
7	Vo2-	Negative output voltage of output 2
8	Vo2+	Positive output voltage of output 2
9	Trim 2	Trim terminal of output 2
10	AUX	Auxiliary voltage
11	IOG	Inverter operation good of output 1
12	+S2	Remote sensing + of output 2
13	Trim 1	Trim terminal of output 1
14	+S1	Remote sensing + of output 1
15	-S1	Remote sensing - of output 1

**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.
4. The rated voltage of output1 is 30 V. The rated voltage of output2 is 5 V.

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