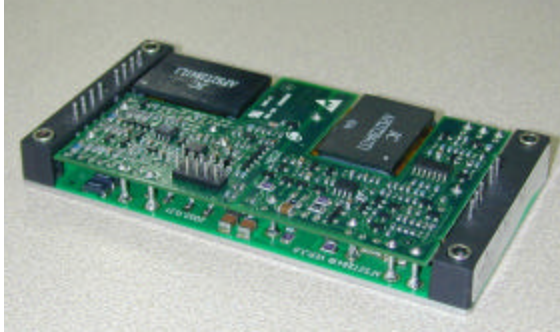


# 700 Watts

## AIF25R48

Total Power: 700 Watts (28V@25Amps)  
 Input Voltages: 48V  
 No. of Outputs: Single



### Special Features

- 700W Continuous power at 100°C baseplate temperature
- High efficiency - 89% @ 28V
- Low output ripple and noise
- Industry standard pin out
- Positive and Negative enable function
- Excellent transient response
- OVP, LVP, OCP, OTP, S/C protection
- Paralleable with accurate current sharing
- Basic Insulation

### Environmental

Operating temperature

-20°C to +100°C (Case temperature)

Storage temperature: -55°C to +125°C

Overtemperature protection: 120°C max

MTBF: TBD hours

### Safety

UL 60950 Recognized

CSA

TUV EN60950 Licensed

CE CE Mark

### Electrical Specs

#### Input

Input range 36 - 75 VDC  
 Input Surge 100V / 100ms  
 Efficiency 89% @ 28V

#### Output

Load Regulation 0.5% typical down to min load  
 Line Regulation 0.2% typical  
 Noise / Ripple 200mV typical  
 Remote sense Up to 0.5V  
 Output voltage adjust range +10%/-20%  
 Transient Response 3% max for deviation with 25% to 50% full load  
 500  $\mu$ S (max) recovery  
 Current Share Accuracy 5% typical  
 Overvoltage Protection 140%  $V_o$  (max)  
 Current Limit 140%  $I_o$  (max)

#### Control

Voltage Adjust 80 to 110%  $V_o$   
 Enable TTL compatible  
 (positive & negative enable options)

#### Notes

Nominal values apply with sense pins connected and other control pin unconnected.

Specifications subject to change without notice.

## Ordering Information

| Input Voltage | Output Voltage | Efficiency | Model Number |
|---------------|----------------|------------|--------------|
| 48V           | 28V @ 25A      | 89% (Typ)  | AIF25R48     |
| 48V           | 28V @ 25A      | 89% (Typ)  | AIF25R48N    |
| 48V           | 28V @ 25A      | 89% (Typ)  | AIF25R48-6   |
| 48V           | 28V @ 25A      | 89% (Typ)  | AIF25R48N-6  |
| 48V           | 28V @ 25A      | 89% (Typ)  | AIF25R48-7   |
| 48V           | 28V @ 25A      | 89% (Typ)  | AIF25R48N-7  |
| 48V           | 28V @ 25A      | 89% (Typ)  | AIF25R48-8   |
| 48V           | 28V @ 25A      | 89% (Typ)  | AIF25R48N-8  |

Note: 1. Suffix "N" for Negative Enable, -6 for 3.8mm pin, -7 for 5.8mm pin, -8 for 2.8mm pin

## Pin Assignments

AIF25R48N-6 (pin side view)

