

AVO120 Series

120 Watts

Data Sheet

Total Power: 120 Watts
Input Voltage: 36 - 75V
of Outputs: Single

SPECIAL FEATURES

- 2:1 Wide input range
- Optimised for High density, small space applications
- Low ripple and noise
- Fixed switching frequency
- High efficiency
- High capacitive load capability
- Basic insulation system
- Pre-bias start-up capability
- Through hole or SMT termination
- Open frame structure with Base-plate option

SAFETY

- UL, cUL: UL60950
- TUV/CE: IEC/EN60950



Electrical Specifications

| Input | |
|------------------------------|---------------|
| Input range: | 36 - 75 VDC |
| Efficiency ² : | 93% @12Vo |
| Output | |
| Maximum power: | +/- 1.6% |
| Line regulation: | +/- 6mV |
| Load regulation: | +/- 10mV |
| Noise/ripple: | 65mV |
| Over voltage protection: | Auto-restart |
| Over temperature protection: | |
| Switching frequency: | 165KHz |
| Temperature coefficient: | ±0.02 /°C |
| Isolation | |
| I/O isolation: | 2000 VDC min. |

Environmental Specifications

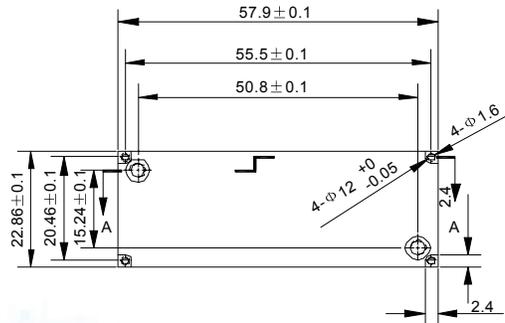
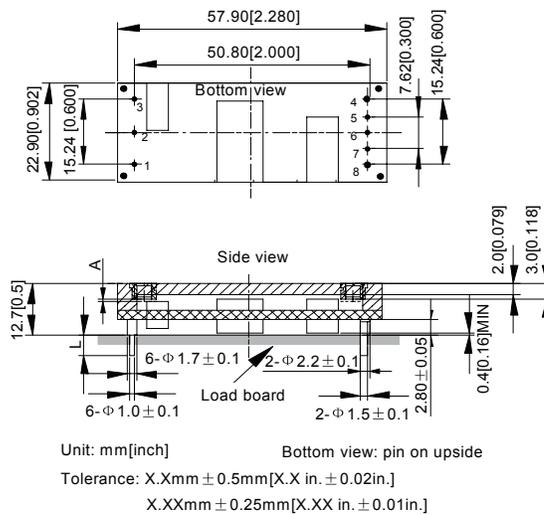
| | |
|--------------------------------------|----------------------------|
| Operating ambient temperature range: | -40°C to +85°C |
| Storage temperature: | -55°C to +125°C |
| Humidity: | 5% to 95% (non-condensing) |
| MTBF: | 1.5 Million hours |
| RoHS Compliant | |

Ordering Information

| Model number | Input voltage | Output voltage | Power |
|-------------------|---------------|------------------------------|-------|
| AVO120-48S12-4L | 36 - 75Vin | 12V @ 10A | 120W |
| AVO120-48S12-6L | 36 - 75Vin | 12V @ 10A | 120W |
| AVO120-48S12B-4L | 36 - 75Vin | 12V @ 10A | 120W |
| AVO120-48S12B-6L | 36 - 75Vin | 12V @ 10A | 120W |
| AVO120-48S12P-4L | 36 - 75Vin | 12V @ 10A | 120W |
| AVO120-48S12P-6L | 36 - 75Vin | 12V @ 10A </td <td>120W</td> | 120W |
| AVO120-48S12PB-4L | 36 - 75Vin | 12V @ 10A | 120W |
| AVO120-48S12PB-6L | 36 - 75Vin | 12V @ 10A | 120W |

- Standard version is negative enable
- "-6" = 3.8mm pin length
- "-4" = 4.8mm pin length
- "-P" = Positive enable
- "-B" = baseplate

Mechanical Drawings



Notes:

1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 2 yr
3. Label and logo appearance may vary from what is shown on mechanical drawings.

Pin Assignments

| Pin # | Function |
|-------|----------|
| 1 | +V in |
| 2 | Enable |
| 3 | -V in |
| 4 | -V out |
| 5 | - Sense |
| 6 | Trim |
| 7 | +Sense |
| 8 | +V out |

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