

**FEATURES:**

- RoHS compliant
- Wide 4:1 input range
- Low ripple and noise
- Remote On/Off control
- Power modules for PCB mounting
- Regulated output
- Operating temperature range: -40 to +75°C
- Capacitive loading up to 4500 μ F (18-75V input)

Models**Single output**

| Model | Input Voltage (V) | Output Voltage (V) | Output Current max (A) | Ripple & Noise % Vout, max | Isolation (VDC) | Efficiency (%) |
|----------------|-------------------|--------------------|------------------------|----------------------------|-----------------|----------------|
| AM15EW-2403SIZ | 9-36 | 3.3 | 4 | 80mV p-p | 1500 | 77 |
| AM15EW-2405SIZ | 9-36 | 5 | 3 | 80mV p-p | 1500 | 80 |
| AM15EW-2412SIZ | 9-36 | 12 | 1.25 | 1 | 1500 | 85 |
| AM15EW-2415SIZ | 9-36 | 15 | 1 | 1 | 1500 | 84 |
| AM15EW-4803SIZ | 18-75 | 3.3 | 4 | 80mV p-p | 1500 | 77 |
| AM15EW-4805SIZ | 18-75 | 5 | 3 | 80mV p-p | 1500 | 80 |
| AM15EW-4812SIZ | 18-75 | 12 | 1.25 | 1 | 1500 | 85 |
| AM15EW-4815SIZ | 18-75 | 15 | 1 | 1 | 1500 | 84 |

Models**Dual output**

| Model | Input Voltage (V) | Output Voltage (V) | Output Current max (A) | Ripple & Noise % Vout, max | Isolation (VDC) | Efficiency (%) |
|----------------|-------------------|--------------------|------------------------|----------------------------|-----------------|----------------|
| AM15EW-2405DIZ | 9-36 | \pm 5 | \pm 1.5 | 1 | 1500 | 80 |
| AM15EW-2412DIZ | 9-36 | \pm 12 | \pm 0.625 | 1 | 1500 | 85 |
| AM15EW-2415DIZ | 9-36 | \pm 15 | \pm 0.5 | 1 | 1500 | 84 |
| AM15EW-4805DIZ | 18-72 | \pm 5 | \pm 1.5 | 1 | 1500 | 80 |
| AM15EW-4812DIZ | 18-72 | \pm 12 | \pm 0.625 | 1 | 1500 | 85 |
| AM15EW-4815DIZ | 18-72 | \pm 15 | \pm 0.5 | 1 | 1500 | 84 |

Input Specifications

| Parameters | Conditions | Typical | Maximum | Units |
|---------------|------------|--------------------|---------|-------|
| Voltage range | | 9-36 18-75 | | VDC |
| Filter | | π (Pi) Network | | |

Isolation Specifications

| Parameters | Conditions | Typical | Maximum | Units |
|---------------|------------|---------|---------|-------|
| Rated voltage | 60 sec | 1500 | | VDC |
| Resistance | | > 1000 | | MOhm |
| Capacitance | | 1000 | | pF |

Output Specifications

| Parameters | Conditions | Typical | Maximum | Units |
|----------------------------------|---------------|------------------------------|-----------|-------|
| Voltage accuracy | | | \pm 2 | % |
| Short Circuit protection | Auto recovery | Continuous, | | |
| Over voltage protection | | Zener diode clamp protection | | |
| Over load protection | Auto recovery | Over 110% full load | | |
| Line voltage regulation (Single) | HL-LL | | \pm 0.5 | % |

Output Specifications (continued)

| Parameters | Conditions | Typical | Maximum | Units |
|----------------------------------|------------|---------|---------|-------|
| Line voltage regulation (Dual) | HL-LL | | ±0.5 | % |
| Load voltage regulation (Single) | 25-100% | | ±0.5 | % |
| Load voltage regulation (Dual) | 25-100% | | ±2 | % |
| Temperature coefficient | | ±0.05 | | %/°C |

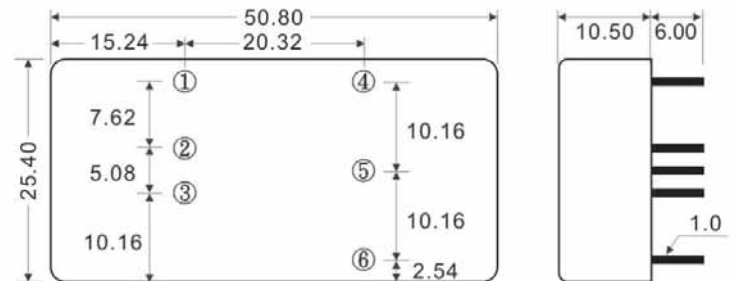
General Specifications

| Parameters | Conditions | Typical | Maximum | Units |
|-----------------------|--|-------------------------|-----------------------|-------|
| Switching frequency | 100% load | 200 | | KHz |
| Operating temperature | Without derating | -40 to +75 | | °C |
| Storage temperature | | -55 to +115 | | °C |
| Case temperature | | | 95 | °C |
| Cooling | Free air convection | | | |
| Humidity | Non condensing | | 95 | % |
| Case material | Nickel coated copper with non-conductive base | | | |
| Weight | | 33 | | g |
| Dimensions | Tolerance ±0.5mm | 2.00 x 1.0 x 0.4 inches | 50.8 x 25.4 x 10.2 mm | |
| MTBF | > 800 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C) | | | |

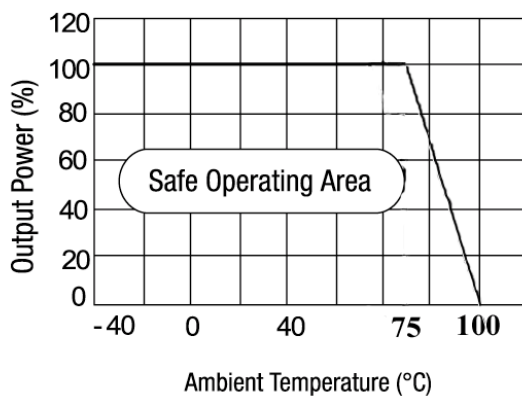
Pin Out Specifications

| Pin | Single | Dual |
|-----|----------------|----------------|
| 1 | On/Off Control | On/Off Control |
| 2 | -V Input | -V Input |
| 3 | +V Input | +V Input |
| 4 | -V Output | -V Output |
| 5 | No pin | Common |
| 6 | +V Output | +V Output |

Dimensions

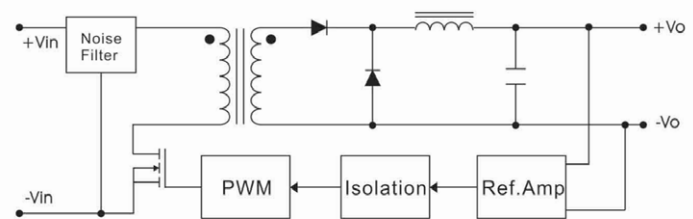


Temperature Derating Graph



Block diagram

Single Output



Dual Output

