



FEATURES:

- RoHS Compliant
- Low ripple and noise
- High efficiency up to 82%
- 7 pin SIP package
- Operating temperature -40°C to +75°C
- Pin compatible with multiple manufacturers
- Input / Output Isolation 1000,3000, 4000 and 5200VDC

Models

Single output

| Model | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------|
| AM2D-0503SZ | 4.5-5.5 | 3.3 | 400 | 1000 | 72 |
| AM2D-0505SZ | 4.5-5.5 | 5 | 400 | 1000 | 78 |
| AM2D-0507SZ | 4.5-5.5 | 7.2 | 278 | 1000 | 80 |
| AM2D-0509SZ | 4.5-5.5 | 9 | 222 | 1000 | 80 |
| AM2D-0512SZ | 4.5-5.5 | 12 | 167 | 1000 | 82 |
| AM2D-0515SZ | 4.5-5.5 | 15 | 134 | 1000 | 82 |
| AM2D-0518SZ | 4.5-5.5 | 18 | 111 | 1000 | 82 |
| AM2D-0524SZ | 4.5-5.5 | 24 | 83 | 1000 | 82 |
| AM2D-1203SZ | 10.8-13.2 | 3.3 | 400 | 1000 | 65 |
| AM2D-1205SZ | 10.8-13.2 | 5 | 400 | 1000 | 77 |
| AM2D-1207SZ | 10.8-13.2 | 7.2 | 278 | 1000 | 80 |
| AM2D-1209SZ | 10.8-13.2 | 9 | 222 | 1000 | 80 |
| AM2D-1212SZ | 10.8-13.2 | 12 | 167 | 1000 | 82 |
| AM2D-1215SZ | 10.8-13.2 | 15 | 134 | 1000 | 82 |
| AM2D-1218SZ | 10.8-13.2 | 18 | 111 | 1000 | 80 |
| AM2D-1224SZ | 10.8-13.2 | 24 | 83 | 1000 | 80 |
| AM2D-2403SZ | 21.6-26.4 | 3.3 | 400 | 1000 | 72 |
| AM2D-2405SZ | 21.6-26.4 | 5 | 400 | 1000 | 79 |
| AM2D-2407SZ | 21.6-26.4 | 7.2 | 278 | 1000 | 80 |
| AM2D-2409SZ | 21.6-26.4 | 9 | 222 | 1000 | 80 |
| AM2D-2412SZ | 21.6-26.4 | 12 | 167 | 1000 | 80 |
| AM2D-2415SZ | 21.6-26.4 | 15 | 134 | 1000 | 82 |
| AM2D-2418SZ | 21.6-26.4 | 18 | 111 | 1000 | 82 |
| AM2D-2424SZ | 21.6-26.4 | 24 | 83 | 1000 | 82 |
| AM2D-0503SH30Z | 4.5-5.5 | 3.3 | 400 | 3000 | 72 |
| AM2D-0505SH30Z | 4.5-5.5 | 5 | 400 | 3000 | 78 |
| AM2D-0507SH30Z | 4.5-5.5 | 7.2 | 278 | 3000 | 80 |
| AM2D-0509SH30Z | 4.5-5.5 | 9 | 222 | 3000 | 80 |
| AM2D-0512SH30Z | 4.5-5.5 | 12 | 167 | 3000 | 82 |
| AM2D-0515SH30Z | 4.5-5.5 | 15 | 134 | 3000 | 82 |
| AM2D-0518SH30Z | 4.5-5.5 | 18 | 111 | 3000 | 82 |
| AM2D-0524SH30Z | 4.5-5.5 | 24 | 83 | 3000 | 82 |
| AM2D-1203SH30Z | 10.8-13.2 | 3.3 | 400 | 3000 | 65 |
| AM2D-1205SH30Z | 10.8-13.2 | 5 | 400 | 3000 | 77 |
| AM2D-1207SH30Z | 10.8-13.2 | 7.2 | 278 | 3000 | 80 |
| AM2D-1209SH30Z | 10.8-13.2 | 9 | 222 | 3000 | 80 |
| AM2D-1212SH30Z | 10.8-13.2 | 12 | 167 | 3000 | 82 |
| AM2D-1215SH30Z | 10.8-13.2 | 15 | 134 | 3000 | 82 |
| AM2D-1218SH30Z | 10.8-13.2 | 18 | 111 | 3000 | 80 |
| AM2D-1224SH30Z | 10.8-13.2 | 24 | 83 | 3000 | 80 |
| AM2D-2403SH30Z | 21.6-26.4 | 3.3 | 400 | 3000 | 72 |
| AM2D-2405SH30Z | 21.6-26.4 | 5 | 400 | 3000 | 79 |
| AM2D-2407SH30Z | 21.6-26.4 | 7.2 | 278 | 3000 | 80 |

Models

Single output (continue)

| Model | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------|
| AM2D-2409SH30Z | 21.6-26.4 | 9 | 222 | 3000 | 80 |
| AM2D-2412SH30Z | 21.6-26.4 | 12 | 167 | 3000 | 80 |
| AM2D-2415SH30Z | 21.6-26.4 | 15 | 134 | 3000 | 82 |
| AM2D-2418SH30Z | 21.6-26.4 | 18 | 111 | 3000 | 82 |
| AM2D-2424SH30Z | 21.6-26.4 | 24 | 83 | 3000 | 80 |
| AM2D-0503SH40Z | 4.5-5.5 | 3.3 | 400 | 4000 | 72 |
| AM2D-0505SH40Z | 4.5-5.5 | 5 | 400 | 4000 | 78 |
| AM2D-0507SH40Z | 4.5-5.5 | 7.2 | 278 | 4000 | 80 |
| AM2D-0509SH40Z | 4.5-5.5 | 9 | 222 | 4000 | 80 |
| AM2D-0512SH40Z | 4.5-5.5 | 12 | 167 | 4000 | 82 |
| AM2D-0515SH40Z | 4.5-5.5 | 15 | 134 | 4000 | 82 |
| AM2D-0518SH40Z | 4.5-5.5 | 18 | 111 | 4000 | 82 |
| AM2D-0524SH40Z | 4.5-5.5 | 24 | 83 | 4000 | 82 |
| AM2D-1203SH40Z | 10.8-13.2 | 3.3 | 400 | 4000 | 65 |
| AM2D-1205SH40Z | 10.8-13.2 | 5 | 400 | 4000 | 77 |
| AM2D-1207SH40Z | 10.8-13.2 | 7.2 | 278 | 4000 | 80 |
| AM2D-1209SH40Z | 10.8-13.2 | 9 | 222 | 4000 | 80 |
| AM2D-1212SH40Z | 10.8-13.2 | 12 | 167 | 4000 | 82 |
| AM2D-1215SH40Z | 10.8-13.2 | 15 | 134 | 4000 | 82 |
| AM2D-1218SH40Z | 10.8-13.2 | 18 | 111 | 4000 | 80 |
| AM2D-1224SH40Z | 10.8-13.2 | 24 | 83 | 4000 | 80 |
| AM2D-2403SH40Z | 21.6-26.4 | 3.3 | 400 | 4000 | 72 |
| AM2D-2405SH40Z | 21.6-26.4 | 5 | 400 | 4000 | 79 |
| AM2D-2407SH40Z | 21.6-26.4 | 7.2 | 278 | 4000 | 80 |
| AM2D-2409SH40Z | 21.6-26.4 | 9 | 222 | 4000 | 80 |
| AM2D-2412SH40Z | 21.6-26.4 | 12 | 167 | 4000 | 80 |
| AM2D-2415SH40Z | 21.6-26.4 | 15 | 134 | 4000 | 82 |
| AM2D-2418SH40Z | 21.6-26.4 | 18 | 111 | 4000 | 82 |
| AM2D-2424SH40Z | 21.6-26.4 | 24 | 83 | 4000 | 80 |
| AM2D-0503SH52Z | 4.5-5.5 | 3.3 | 400 | 5200 | 72 |
| AM2D-0505SH52Z | 4.5-5.5 | 5 | 400 | 5200 | 78 |
| AM2D-0507SH52Z | 4.5-5.5 | 7.2 | 278 | 5200 | 80 |
| AM2D-0509SH52Z | 4.5-5.5 | 9 | 222 | 5200 | 80 |
| AM2D-0512SH52Z | 4.5-5.5 | 12 | 167 | 5200 | 82 |
| AM2D-0515SH52Z | 4.5-5.5 | 15 | 134 | 5200 | 82 |
| AM2D-0518SH52Z | 4.5-5.5 | 18 | 111 | 5200 | 82 |
| AM2D-0524SH52Z | 4.5-5.5 | 24 | 83 | 5200 | 82 |
| AM2D-1203SH52Z | 10.8-13.2 | 3.3 | 400 | 5200 | 65 |
| AM2D-1205SH52Z | 10.8-13.2 | 5 | 400 | 5200 | 77 |
| AM2D-1207SH52Z | 10.8-13.2 | 7.2 | 278 | 5200 | 80 |
| AM2D-1209SH52Z | 10.8-13.2 | 9 | 222 | 5200 | 80 |
| AM2D-1212SH52Z | 10.8-13.2 | 12 | 167 | 5200 | 82 |
| AM2D-1215SH52Z | 10.8-13.2 | 15 | 134 | 5200 | 82 |
| AM2D-1218SH52Z | 10.8-13.2 | 18 | 111 | 5200 | 80 |
| AM2D-1224SH52Z | 10.8-13.2 | 24 | 83 | 5200 | 80 |
| AM2D-2403SH52Z | 21.6-26.4 | 3.3 | 400 | 5200 | 72 |
| AM2D-2405SH52Z | 21.6-26.4 | 5 | 400 | 5200 | 79 |
| AM2D-2407SH52Z | 21.6-26.4 | 7.2 | 278 | 5200 | 80 |
| AM2D-2409SH52Z | 21.6-26.4 | 9 | 222 | 5200 | 80 |
| AM2D-2412SH52Z | 21.6-26.4 | 12 | 167 | 5200 | 80 |
| AM2D-2415SH52Z | 21.6-26.4 | 15 | 134 | 5200 | 82 |
| AM2D-2418SH52Z | 21.6-26.4 | 18 | 111 | 5200 | 82 |
| AM2D-2424SH52Z | 21.6-26.4 | 24 | 83 | 5200 | 80 |

Models
Dual output

| Model | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------|
| AM2D-0503DZ | 4.5-5.5 | ±3.3 | ±200 | 1000 | 65 |
| AM2D-0505DZ | 4.5-5.5 | ±5 | ±200 | 1000 | 72 |
| AM2D-0507DZ | 4.5-5.5 | ±7.2 | ±139 | 1000 | 72 |
| AM2D-0509DZ | 4.5-5.5 | ±9 | ±111 | 1000 | 77 |
| AM2D-0512DZ | 4.5-5.5 | ±12 | ±83 | 1000 | 78 |
| AM2D-0515DZ | 4.5-5.5 | ±15 | ±67 | 1000 | 80 |
| AM2D-0518DZ | 4.5-5.5 | ±18 | ±55 | 1000 | 80 |
| AM2D-0524DZ | 4.5-5.5 | ±24 | ±42 | 1000 | 80 |
| AM2D-1203DZ | 10.8-13.2 | ±3.3 | ±200 | 1000 | 67 |
| AM2D-1205DZ | 10.8-13.2 | ±5 | ±200 | 1000 | 75 |
| AM2D-1207DZ | 10.8-13.2 | ±7.2 | ±139 | 1000 | 76 |
| AM2D-1209DZ | 10.8-13.2 | ±9 | ±111 | 1000 | 77 |
| AM2D-1212DZ | 10.8-13.2 | ±12 | ±83 | 1000 | 82 |
| AM2D-1215DZ | 10.8-13.2 | ±15 | ±67 | 1000 | 82 |
| AM2D-1218DZ | 10.8-13.2 | ±18 | ±55 | 1000 | 82 |
| AM2D-1224DZ | 10.8-13.2 | ±24 | ±42 | 1000 | 82 |
| AM2D-2403DZ | 21.6-26.4 | ±3.3 | ±200 | 1000 | 68 |
| AM2D-2405DZ | 21.6-26.4 | ±5 | ±200 | 1000 | 75 |
| AM2D-2407DZ | 21.6-26.4 | ±7.2 | ±139 | 1000 | 75 |
| AM2D-2409DZ | 21.6-26.4 | ±9 | ±111 | 1000 | 80 |
| AM2D-2412DZ | 21.6-26.4 | ±12 | ±83 | 1000 | 82 |
| AM2D-2415DZ | 21.6-26.4 | ±15 | ±67 | 1000 | 82 |
| AM2D-2418DZ | 21.6-26.4 | ±18 | ±55 | 1000 | 82 |
| AM2D-2424DZ | 21.6-26.4 | ±24 | ±42 | 1000 | 82 |
| AM2D-0503DH30Z | 4.5-5.5 | ±3.3 | ±200 | 3000 | 65 |
| AM2D-0505DH30Z | 4.5-5.5 | ±5 | ±200 | 3000 | 72 |
| AM2D-0507DH30Z | 4.5-5.5 | ±7.2 | ±139 | 3000 | 72 |
| AM2D-0509DH30Z | 4.5-5.5 | ±9 | ±111 | 3000 | 77 |
| AM2D-0512DH30Z | 4.5-5.5 | ±12 | ±83 | 3000 | 78 |
| AM2D-0515DH30Z | 4.5-5.5 | ±15 | ±67 | 3000 | 80 |
| AM2D-0518DH30Z | 4.5-5.5 | ±18 | ±55 | 3000 | 80 |
| AM2D-0524DH30Z | 4.5-5.5 | ±24 | ±42 | 3000 | 80 |
| AM2D-1203DH30Z | 10.8-13.2 | ±3.3 | ±200 | 3000 | 67 |
| AM2D-1205DH30Z | 10.8-13.2 | ±5 | ±200 | 3000 | 75 |
| AM2D-1207DH30Z | 10.8-13.2 | ±7.2 | ±139 | 3000 | 76 |
| AM2D-1209DH30Z | 10.8-13.2 | ±9 | ±111 | 3000 | 77 |
| AM2D-1212DH30Z | 10.8-13.2 | ±12 | ±83 | 3000 | 82 |
| AM2D-1215DH30Z | 10.8-13.2 | ±15 | ±67 | 3000 | 82 |
| AM2D-1218DH30Z | 10.8-13.2 | ±18 | ±55 | 3000 | 82 |
| AM2D-1224DH30Z | 10.8-13.2 | ±24 | ±42 | 3000 | 82 |
| AM2D-2403DH30Z | 21.6-26.4 | ±3.3 | ±200 | 3000 | 68 |
| AM2D-2405DH30Z | 21.6-26.4 | ±5 | ±200 | 3000 | 75 |
| AM2D-2407DH30Z | 21.6-26.4 | ±7.2 | ±139 | 3000 | 75 |
| AM2D-2409DH30Z | 21.6-26.4 | ±9 | ±111 | 3000 | 80 |
| AM2D-2412DH30Z | 21.6-26.4 | ±12 | ±83 | 3000 | 82 |
| AM2D-2415DH30Z | 21.6-26.4 | ±15 | ±67 | 3000 | 82 |
| AM2D-2418DH30Z | 21.6-26.4 | ±18 | ±55 | 3000 | 82 |
| AM2D-2424DH30Z | 21.6-26.4 | ±24 | ±42 | 3000 | 82 |

Models

Dual output (continue)

| Model | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------|
| AM2D-0503DH40Z | 4.5-5.5 | ±3.3 | ±200 | 4000 | 65 |
| AM2D-0505DH40Z | 4.5-5.5 | ±5 | ±200 | 4000 | 72 |
| AM2D-0507DH40Z | 4.5-5.5 | ±7.2 | ±139 | 4000 | 72 |
| AM2D-0509DH40Z | 4.5-5.5 | ±9 | ±111 | 4000 | 77 |
| AM2D-0512DH40Z | 4.5-5.5 | ±12 | ±83 | 4000 | 78 |
| AM2D-0515DH40Z | 4.5-5.5 | ±15 | ±67 | 4000 | 80 |
| AM2D-0518DH40Z | 4.5-5.5 | ±18 | ±55 | 4000 | 80 |
| AM2D-0524DH40Z | 4.5-5.5 | ±24 | ±42 | 4000 | 80 |
| AM2D-1203DH40Z | 10.8-13.2 | ±3.3 | ±200 | 4000 | 67 |
| AM2D-1205DH40Z | 10.8-13.2 | ±5 | ±200 | 4000 | 75 |
| AM2D-1207DH40Z | 10.8-13.2 | ±7.2 | ±139 | 4000 | 76 |
| AM2D-1209DH40Z | 10.8-13.2 | ±9 | ±111 | 4000 | 77 |
| AM2D-1212DH40Z | 10.8-13.2 | ±12 | ±83 | 4000 | 82 |
| AM2D-1215DH40Z | 10.8-13.2 | ±15 | ±67 | 4000 | 82 |
| AM2D-1218DH40Z | 10.8-13.2 | ±18 | ±55 | 4000 | 82 |
| AM2D-1224DH40Z | 10.8-13.2 | ±24 | ±42 | 4000 | 82 |
| AM2D-2403DH40Z | 21.6-26.4 | ±3.3 | ±200 | 4000 | 68 |
| AM2D-2405DH40Z | 21.6-26.4 | ±5 | ±200 | 4000 | 75 |
| AM2D-2407DH40Z | 21.6-26.4 | ±7.2 | ±139 | 4000 | 75 |
| AM2D-2409DH40Z | 21.6-26.4 | ±9 | ±111 | 4000 | 80 |
| AM2D-2412DH40Z | 21.6-26.4 | ±12 | ±83 | 4000 | 82 |
| AM2D-2415DH40Z | 21.6-26.4 | ±15 | ±67 | 4000 | 82 |
| AM2D-2418DH40Z | 21.6-26.4 | ±18 | ±55 | 4000 | 82 |
| AM2D-2424DH40Z | 21.6-26.4 | ±24 | ±42 | 4000 | 82 |
| AM2D-0503DH52Z | 4.5-5.5 | ±3.3 | ±200 | 5200 | 65 |
| AM2D-0505DH52Z | 4.5-5.5 | ±5 | ±200 | 5200 | 72 |
| AM2D-0507DH52Z | 4.5-5.5 | ±7.2 | ±139 | 5200 | 72 |
| AM2D-0509DH52Z | 4.5-5.5 | ±9 | ±111 | 5200 | 77 |
| AM2D-0512DH52Z | 4.5-5.5 | ±12 | ±83 | 5200 | 78 |
| AM2D-0515DH52Z | 4.5-5.5 | ±15 | ±67 | 5200 | 80 |
| AM2D-0518DH52Z | 4.5-5.5 | ±18 | ±55 | 5200 | 80 |
| AM2D-0524DH52Z | 4.5-5.5 | ±24 | ±42 | 5200 | 80 |
| AM2D-1203DH52Z | 10.8-13.2 | ±3.3 | ±200 | 5200 | 67 |
| AM2D-1205DH52Z | 10.8-13.2 | ±5 | ±200 | 5200 | 75 |
| AM2D-1207DH52Z | 10.8-13.2 | ±7.2 | ±139 | 5200 | 76 |
| AM2D-1209DH52Z | 10.8-13.2 | ±9 | ±111 | 5200 | 77 |
| AM2D-1212DH52Z | 10.8-13.2 | ±12 | ±83 | 5200 | 82 |
| AM2D-1215DH52Z | 10.8-13.2 | ±15 | ±67 | 5200 | 82 |
| AM2D-1218DH52Z | 10.8-13.2 | ±18 | ±55 | 5200 | 82 |
| AM2D-1224DH52Z | 10.8-13.2 | ±24 | ±42 | 5200 | 82 |
| AM2D-2403DH52Z | 21.6-26.4 | ±3.3 | ±200 | 5200 | 68 |
| AM2D-2405DH52Z | 21.6-26.4 | ±5 | ±200 | 5200 | 75 |
| AM2D-2407DH52Z | 21.6-26.4 | ±7.2 | ±139 | 5200 | 75 |
| AM2D-2409DH52Z | 21.6-26.4 | ±9 | ±111 | 5200 | 80 |
| AM2D-2412DH52Z | 21.6-26.4 | ±12 | ±83 | 5200 | 82 |
| AM2D-2415DH52Z | 21.6-26.4 | ±15 | ±67 | 5200 | 82 |
| AM2D-2418DH52Z | 21.6-26.4 | ±18 | ±55 | 5200 | 82 |
| AM2D-2424DH52Z | 21.6-26.4 | ±24 | ±42 | 5200 | 82 |

Models

Dual separated output

| Model | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Efficiency (%) |
|---------------|-------------------|--------------------|-------------------------|-----------------|----------------|
| AM2D-050303DZ | 4.5-5.5 | 3.3 / 3.3 | 200 / 200 | 1000 | 73 |
| AM2D-050505DZ | 4.5-5.5 | 5 / 5 | 200 / 200 | 1000 | 78 |

Models

Dual separated output (continued)

| Model | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Efficiency (%) |
|---------------|-------------------|--------------------|-------------------------|-----------------|----------------|
| AM2D-050707DZ | 4.5-5.5 | 7.2 / 7.2 | 139 / 139 | 1000 | 75 |
| AM2D-050909DZ | 4.5-5.5 | 9 / 9 | 111 / 111 | 1000 | 78 |
| AM2D-051212DZ | 4.5-5.5 | 12 / 12 | 83 / 83 | 1000 | 82 |
| AM2D-051515DZ | 4.5-5.5 | 15 / 15 | 67 / 67 | 1000 | 82 |
| AM2D-051818DZ | 4.5-5.5 | 18 / 18 | 55 / 55 | 1000 | 79 |
| AM2D-052424DZ | 4.5-5.5 | 24 / 24 | 42 / 42 | 1000 | 75 |
| AM2D-120303DZ | 10.8-13.2 | 3.3 / 3.3 | 200 / 200 | 1000 | 73 |
| AM2D-120505DZ | 10.8-13.2 | 5 / 5 | 200 / 200 | 1000 | 78 |
| AM2D-120707DZ | 10.8-13.2 | 7.2 / 7.2 | 139 / 139 | 1000 | 75 |
| AM2D-120909DZ | 10.8-13.2 | 9 / 9 | 111 / 111 | 1000 | 78 |
| AM2D-121212DZ | 10.8-13.2 | 12 / 12 | 83 / 83 | 1000 | 82 |
| AM2D-121515DZ | 10.8-13.2 | 15 / 15 | 67 / 67 | 1000 | 82 |
| AM2D-121818DZ | 10.8-13.2 | 18 / 18 | 55 / 55 | 1000 | 78 |
| AM2D-122424DZ | 10.8-13.2 | 24 / 24 | 42 / 42 | 1000 | 75 |
| AM2D-240303DZ | 21.6-26.4 | 3.3 / 3.3 | 200 / 200 | 1000 | 73 |
| AM2D-240505DZ | 21.6-26.4 | 5 / 5 | 200 / 200 | 1000 | 78 |
| AM2D-240707DZ | 21.6-26.4 | 7.2 / 7.2 | 139 / 139 | 1000 | 75 |
| AM2D-240909DZ | 21.6-26.4 | 9 / 9 | 111 / 111 | 1000 | 78 |
| AM2D-241212DZ | 21.6-26.4 | 12 / 12 | 83 / 83 | 1000 | 82 |
| AM2D-241515DZ | 21.6-26.4 | 15 / 15 | 67 / 67 | 1000 | 82 |
| AM2D-241818DZ | 21.6-26.4 | 18 / 18 | 55 / 55 | 1000 | 75 |
| AM2D-242424DZ | 21.6-26.4 | 24 / 24 | 42 / 42 | 1000 | 75 |

Input Specifications

| Parameters | Nominal | Typical | Maximum | Units |
|--------------------------------|-----------|-----------|---------|-------|
| Voltage range | 5 | 4.5-5.5 | | VDC |
| | 12 | 10.8-13.2 | | |
| | 24 | 21.6-26.4 | | |
| Filter | Capacitor | | | |
| Turn on Transient process time | | | 25 | ms |
| Start up time | | 200 | | ms |
| Absolute Maximum Rating | 5 Vin | 0-7 | | VDC |
| | 12 Vin | 0-15 | | |
| | 24 Vin | 0-28 | | |
| Peak Input Voltage time | | 100 | | ms |

Isolation Specifications

| Parameters | Conditions | Typical | Maximum | Units |
|--------------------|------------|---------------------------|---------|-------|
| Tested I/O voltage | 3 sec | 1000, 3000, 4000 and 5200 | | VDC |
| Resistance | | > 1000 | | MOhm |
| Capacitance | | 60 | | pF |

Output Specifications

| Parameters | Conditions | Typical | Maximum | Units |
|---|-----------------|-------------------|---------|-------|
| Voltage accuracy | | ±3 | | % |
| Voltage balance | Dual output | ±1 | | % |
| Short Circuit protection | | Momentary (1sec). | | |
| Line voltage regulation (Single) | For 1.0% of Vin | ±1.2 | | % |
| Line voltage regulation (Dual) | For 1.0% of Vin | ±1.2 | | % |
| Load voltage regulation (Single) | Load 20~100% | ±10 | | % |
| Load voltage regulation (Single) 3.3V output model | Load 20~100% | ±20 | | % |

Output Specifications (continued)

| Parameters | Conditions | Typical | Maximum | Units |
|--|--------------------|-------------------|---------|--------|
| Voltage accuracy | | ±3 | | % |
| Voltage balance | Dual output | ±1 | | % |
| Short Circuit protection | | Momentary (1sec). | | |
| Line voltage regulation (Single) | For 1.0% of Vin | ±1.2 | | % |
| Line voltage regulation (Dual) | For 1.0% of Vin | ±1.2 | | % |
| Load voltage regulation (Single) | Load 20~100% | ±10 | | % |
| Load voltage regulation (Single) 3.3V output model | Load 20~100% | ±20 | | % |
| Load voltage regulation (Dual) | Load 20~100% | ±10 | | % |
| Load voltage regulation (Dual) 3.3V output model | Load 20~100% | ±20 | | % |
| Temperature coefficient | | ±0.02 | | %/°C |
| Ripple & Noise | At 20MHz Bandwidth | 75 | | mV p-p |
| Capacitive load | Single output | | 470 | µF |
| | Dual output | | 220 | µF |
| Rising time | | 100 | | ms |

General Specifications

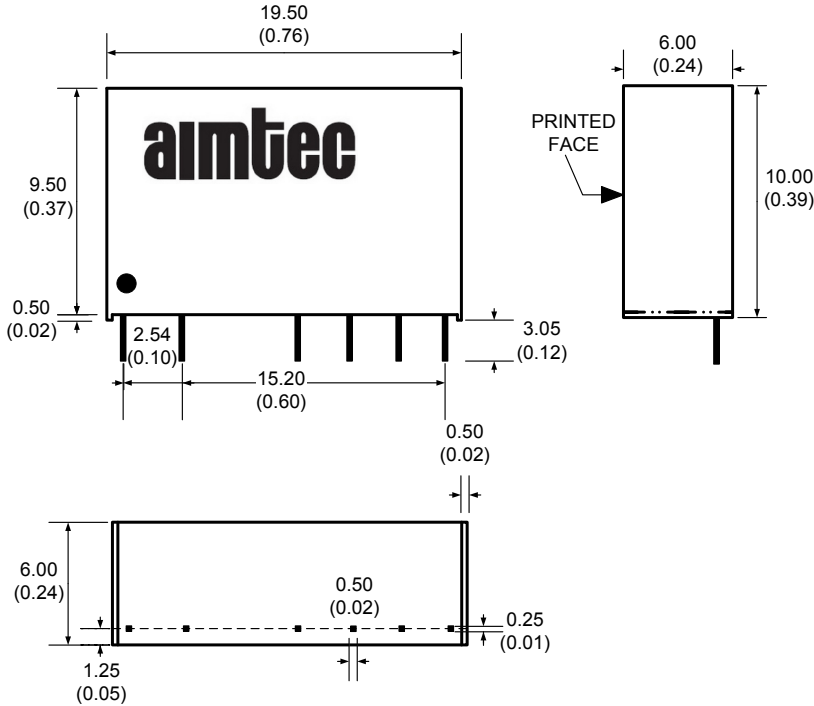
| Parameters | Conditions | Typical | Maximum | Units |
|------------------------|------------|---|------------------------|-------|
| Switching frequency | 100% load | 85 | | KHz |
| Operating temperature | | | -40 to +75 | °C |
| Storage temperature | | | -55 to +125 | °C |
| Max Case temperature | | | +95 | °C |
| Cooling | | Free air convection | | |
| Humidity | | | 90 | % |
| Case material | | Plastic UL94-VO | | |
| Weight | | 2.5 | | g |
| Dimensions (L x W x H) | | 0.76 x 0.24 x 0.37 inch | 19.50 x 6.00 x 9.50 mm | |
| MTBF | | >688 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C) | | |

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified

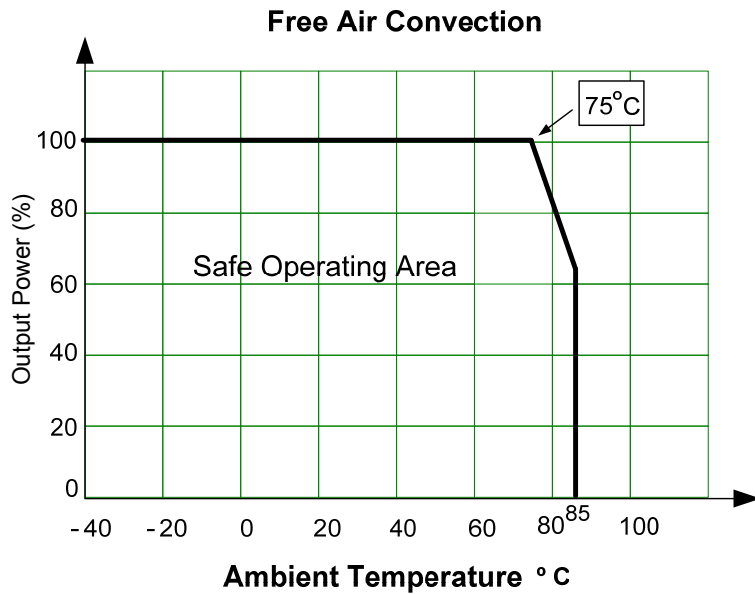
Pin Out Specifications

| Pin | 1000 VDC | | | 3000, 4000 , 5200 VDC | |
|-----|------------|------------|----------------|-----------------------|-----------|
| | Single | Dual | Dual separated | Single | Dual |
| 1 | + V Input | + V Input | + V Input | + V Input | + V Input |
| 2 | - V Input | - V Input | - V Input | - V Input | - V Input |
| 4 | - V Output | - V Output | +V1 Output | No pin | No pin |
| 5 | No pin | Common | -V1 Output | -V Output | -V Output |
| 6 | + V Output | + V Output | +V2 Output | No pin | Common |
| 7 | No pin | No pin | -V2 Output | +V Output | +V Output |

Dimensions



Derating



NOTE: 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. 3. Mechanical drawings and specifications are for reference only. 4. Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. 5. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet.