



**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             |
| AM2D-2409SH30Z | 21.6-26.4         | 9                  | 222                     | 3000            | 80             |
| AM2D-2412SH30Z | 21.6-26.4         | 12                 | 167                     | 3000            | 80             |

**Models**

**Single output (continue)**

| Model          | Input Voltage (V) | Output Voltage (V) | Output Current max (mA) | Isolation (VDC) | Efficiency (%) |
|----------------|-------------------|--------------------|-------------------------|-----------------|----------------|
| 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

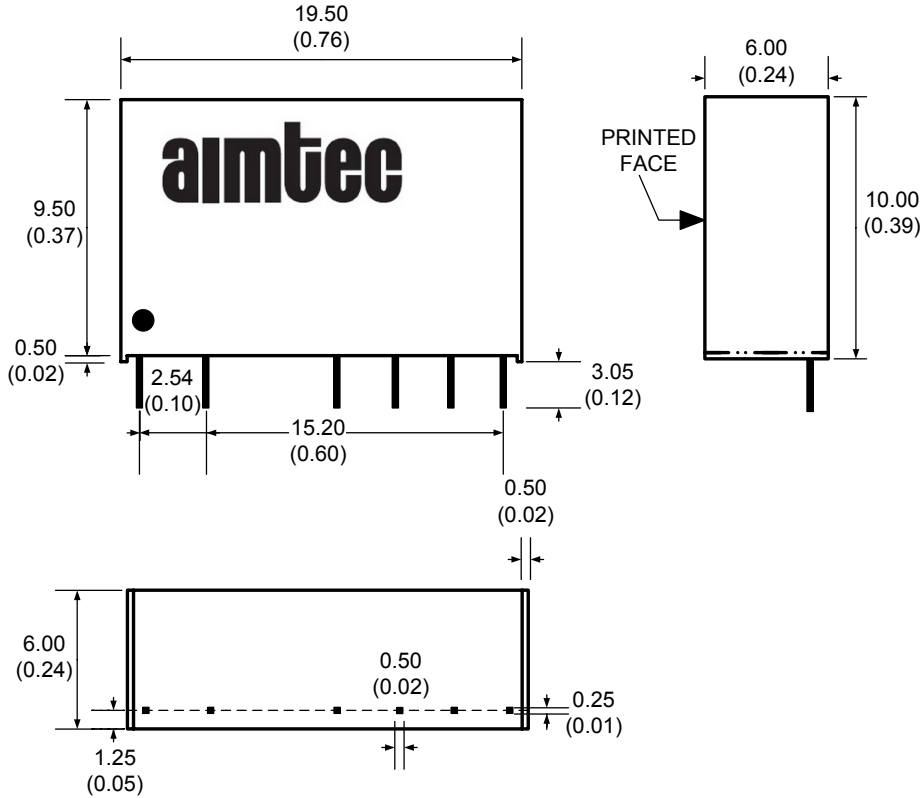
### Safety Specifications

| Parameters       |   |
|------------------|---|
| Agency approvals | CE (Except dual separated models)           |
| Standards        | EN55022 (Radiated Emissions) class B        |
|                  | EN55024 (Noise Immunity), IEC61000-4-2(ESD) |
|                  | IEC61000-4-3 (Radiated immunity)            |

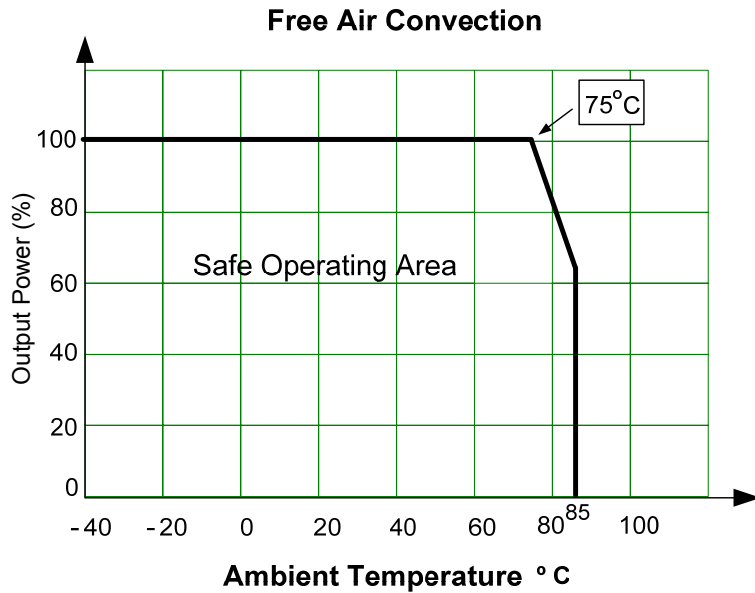
### Pin Out Specifications

| 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](http://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 than the ones listed in this datasheet.