

**FEATURES:**

- SMD Package
- Single Output Models
- Low Ripple and Noise
- Industry Standard Pinout
- Input / Output Isolation 1500 & 3000 VDC
- Operating Temperature -40°C to +105°C
- RoHS Compliant
- Continuous Short Circuit Protection

### Models

#### Single output



| Model               | Input Voltage (V) | Output Voltage (V) | Output Current Max / Min (mA) | Isolation (VDC) | Input Current Max   No Load (mA) |    | Max Capacitive Load (μF) | Efficiency (%) |
|---------------------|-------------------|--------------------|-------------------------------|-----------------|----------------------------------|----|--------------------------|----------------|
| AM1LS-0303S-NZ‡     | 2.97-3.63         | 3.3                | 303 / 30                      | 1500            | 415                              | 25 | 220                      | 69             |
| AM1LS-0305S-NZ‡     | 2.97-3.63         | 5                  | 200 / 20                      | 1500            | 404                              | 25 | 220                      | 74             |
| AM1LS-0309S-NZ‡     | 2.97-3.63         | 9                  | 111 / 12                      | 1500            | 404                              | 25 | 220                      | 80             |
| AM1LS-0312S-NZ‡     | 2.97-3.63         | 12                 | 84 / 9                        | 1500            | 404                              | 25 | 220                      | 80             |
| AM1LS-0315S-NZ‡     | 2.97-3.63         | 15                 | 67 / 7                        | 1500            | 404                              | 25 | 220                      | 80             |
| AM1LS-0324S-NZ‡     | 2.97-3.63         | 24                 | 42 / 4                        | 1500            | 404                              | 25 | 220                      | 80             |
| AM1LS-0503S-NZ**    | 4.5-5.5           | 3.3                | 303 / 30                      | 1500            | 286                              | 10 | 2400                     | 74             |
| AM1LS-0505S-NZ**    | 4.5-5.5           | 5                  | 200 / 20                      | 1500            | 286                              | 10 | 2400                     | 82             |
| AM1LS-0505SJZ**     | 4.5-5.5           | 5                  | 200 / 20                      | 1500            | 286                              | 10 | 2400                     | 82             |
| AM1LS-0506S-NZ      | 4.5-5.5           | 6                  | 167 / 17                      | 1500            | 250                              | 20 | 220                      | 80             |
| AM1LS-0509S-NZ**    | 4.5-5.5           | 9                  | 111 / 12                      | 1500            | 254                              | 20 | 1000                     | 80             |
| AM1LS-0512S-NZ**    | 4.5-5.5           | 12                 | 84 / 9                        | 1500            | 254                              | 20 | 560                      | 80             |
| AM1LS-0515S-NZ**    | 4.5-5.5           | 15                 | 67 / 7                        | 1500            | 254                              | 30 | 560                      | 80             |
| AM1LS-0524S-NZ**    | 4.5-5.5           | 24                 | 42 / 4                        | 1500            | 254                              | 30 | 220                      | 80             |
| AM1LS-1203S-NZ      | 10.8-13.2         | 3.3                | 303 / 30                      | 1500            | 111                              | 15 | 220                      | 75             |
| AM1LS-1205S-NZ      | 10.8-13.2         | 5                  | 200 / 20                      | 1500            | 104                              | 15 | 220                      | 80             |
| AM1LS-1209S-NZ      | 10.8-13.2         | 9                  | 111 / 12                      | 1500            | 104                              | 15 | 220                      | 80             |
| AM1LS-1212S-NZ      | 10.8-13.2         | 12                 | 84 / 9                        | 1500            | 103                              | 15 | 220                      | 81             |
| AM1LS-1215S-NZ      | 10.8-13.2         | 15                 | 67 / 7                        | 1500            | 103                              | 15 | 220                      | 81             |
| AM1LS-1224S-NZ      | 10.8-13.2         | 24                 | 42 / 4                        | 1500            | 103                              | 15 | 220                      | 81             |
| AM1LS-1505S-NZ      | 13.5-16.5         | 5                  | 200 / 20                      | 1500            | 82                               | 10 | 220                      | 80             |
| AM1LS-1509S-NZ      | 13.5-16.5         | 9                  | 111 / 12                      | 1500            | 82                               | 10 | 220                      | 80             |
| AM1LS-1515S-NZ      | 13.5-16.5         | 15                 | 67 / 7                        | 1500            | 82                               | 10 | 220                      | 81             |
| AM1LS-2403S-NZ‡     | 21.6-26.4         | 3.3                | 303 / 30                      | 1500            | 52                               | 7  | 220                      | 71             |
| AM1LS-2405S-NZ‡     | 21.6-26.4         | 5                  | 200 / 20                      | 1500            | 52                               | 7  | 220                      | 80             |
| AM1LS-2409S-NZ‡     | 21.6-26.4         | 9                  | 111 / 12                      | 1500            | 52                               | 7  | 220                      | 80             |
| AM1LS-2412S-NZ‡     | 21.6-26.4         | 12                 | 84 / 9                        | 1500            | 52                               | 7  | 220                      | 80             |
| AM1LS-2415S-NZ‡     | 21.6-26.4         | 15                 | 67 / 7                        | 1500            | 51                               | 7  | 220                      | 81             |
| AM1LS-2424S-NZ‡     | 21.6-26.4         | 24                 | 42 / 4                        | 1500            | 51                               | 7  | 220                      | 81             |
| AM1LS-0303SH30-NZ   | 2.97-3.63         | 3.3                | 303 / 30                      | 3000            | 415                              | 25 | 220                      | 73             |
| AM1LS-0305SH30-NZ   | 2.97-3.63         | 5                  | 200 / 20                      | 3000            | 388                              | 25 | 220                      | 78             |
| AM1LS-0503SH30-NZ** | 4.5-5.5           | 3.3                | 303 / 30                      | 3000            | 286                              | 10 | 2400                     | 74             |
| AM1LS-0505SH30-NZ** | 4.5-5.5           | 5                  | 200 / 20                      | 3000            | 286                              | 10 | 2400                     | 82             |
| AM1LS-0509SH30-NZ** | 4.5-5.5           | 9                  | 111 / 12                      | 3000            | 254                              | 20 | 1000                     | 83             |
| AM1LS-0512SH30-NZ** | 4.5-5.5           | 12                 | 84 / 9                        | 3000            | 254                              | 20 | 560                      | 83             |
| AM1LS-0515SH30-NZ** | 4.5-5.5           | 15                 | 67 / 7                        | 3000            | 254                              | 30 | 560                      | 83             |
| AM1LS-0524SH30-NZ** | 4.5-5.5           | 24                 | 42 / 4                        | 3000            | 254                              | 30 | 220                      | 85             |
| AM1LS-1203SH30-NZ   | 10.8-13.2         | 3.3                | 303 / 30                      | 3000            | 111                              | 15 | 220                      | 75             |
| AM1LS-1205SH30-NZ   | 10.8-13.2         | 5                  | 200 / 20                      | 3000            | 104                              | 15 | 220                      | 80             |
| AM1LS-1209SH30-NZ   | 10.8-13.2         | 9                  | 111 / 12                      | 3000            | 104                              | 15 | 220                      | 80             |
| AM1LS-1212SH30-NZ   | 10.8-13.2         | 12                 | 84 / 9                        | 3000            | 103                              | 15 | 220                      | 81             |
| AM1LS-1215SH30-NZ   | 10.8-13.2         | 15                 | 67 / 7                        | 3000            | 103                              | 15 | 220                      | 81             |
| AM1LS-1224SH30-NZ   | 10.8-13.2         | 24                 | 42 / 4                        | 3000            | 103                              | 15 | 220                      | 81             |
| AM1LS-1515SH30-NZ   | 13.5-16.5         | 15                 | 67 / 7                        | 3000            | 82                               | 10 | 220                      | 80             |
| AM1LS-2405SH30-NZ‡  | 21.6-26.4         | 5                  | 200 / 20                      | 3000            | 52                               | 7  | 220                      | 80             |

|                    |           |    |          |      |    |   |     |    |
|--------------------|-----------|----|----------|------|----|---|-----|----|
| AM1LS-2409SH30-NZ‡ | 21.6-26.4 | 9  | 111 / 12 | 3000 | 52 | 7 | 220 | 80 |
| AM1LS-2415SH30-NZ‡ | 21.6-26.4 | 15 | 84 / 9   | 3000 | 51 | 7 | 220 | 81 |
| AM1LS-2424SH30-NZ‡ | 21.6-26.4 | 24 | 67 / 7   | 3000 | 51 | 7 | 220 | 81 |

## Models

### Dual output

| Model               | Input Voltage (V) | Output Voltage (V) | Output Current Max / Min (mA) | Isolation (VDC) | Input Current Max   No Load (mA) |    | Max Capacitive Load(μF) | Efficiency (%) |
|---------------------|-------------------|--------------------|-------------------------------|-----------------|----------------------------------|----|-------------------------|----------------|
| AM1LS-0305D-NZ      | 2.97-3.63         | ±5                 | ±100 / ±10                    | 1500            | 415                              | 25 | 100                     | 78             |
| AM1LS-0312D-NZ      | 2.97-3.63         | ±12                | ±42 / ±5                      | 1500            | 388                              | 25 | 100                     | 80             |
| AM1LS-0315D-NZ      | 2.97-3.63         | ±15                | ±33 / ±3                      | 1500            | 263                              | 20 | 100                     | 80             |
| AM1LS-0505D-NZ**    | 4.5-5.5           | ±5                 | ±100 / ±10                    | 1500            | 257                              | 10 | 1200                    | 82             |
| AM1LS-0509D-NZ**    | 4.5-5.5           | ±9                 | ±56 / ±6                      | 1500            | 254                              | 20 | 470                     | 83             |
| AM1LS-0512D-NZ**    | 4.5-5.5           | ±12                | ±42 / ±5                      | 1500            | 254                              | 20 | 220                     | 83             |
| AM1LS-0515D-NZ**    | 4.5-5.5           | ±15                | ±33 / ±3                      | 1500            | 254                              | 30 | 220                     | 83             |
| AM1LS-0524D-NZ ‡    | 4.5-5.5           | ±24                | ±21 / ±2                      | 1500            | 250                              | 20 | 100                     | 81             |
| AM1LS-1205D-NZ      | 10.8-13.2         | ±5                 | ±100 / ±10                    | 1500            | 111                              | 15 | 100                     | 75             |
| AM1LS-1209D-NZ      | 10.8-13.2         | ±9                 | ±56 / ±6                      | 1500            | 104                              | 15 | 100                     | 80             |
| AM1LS-1212D-NZ      | 10.8-13.2         | ±12                | ±42 / ±5                      | 1500            | 104                              | 15 | 100                     | 80             |
| AM1LS-1215D-NZ      | 10.8-13.2         | ±15                | ±33 / ±3                      | 1500            | 103                              | 15 | 100                     | 81             |
| AM1LS-1224D-NZ      | 10.8-13.2         | ±24                | ±21 / ±2                      | 1500            | 103                              | 15 | 100                     | 81             |
| AM1LS-1515D-NZ      | 13.5-16.5         | ±15                | ±33 / ±3                      | 1500            | 103                              | 15 | 100                     | 81             |
| AM1LS-2405D-NZ‡     | 21.6-26.4         | ±5                 | ±100 / ±10                    | 1500            | 83                               | 12 | 100                     | 82             |
| AM1LS-2409D-NZ‡     | 21.6-26.4         | ±9                 | ±56 / ±6                      | 1500            | 52                               | 7  | 100                     | 82             |
| AM1LS-2412D-NZ‡     | 21.6-26.4         | ±12                | ±42 / ±5                      | 1500            | 52                               | 7  | 100                     | 82             |
| AM1LS-2415D-NZ‡     | 21.6-26.4         | ±15                | ±33 / ±3                      | 1500            | 51                               | 7  | 100                     | 82             |
| AM1LS-2424D-NZ‡     | 21.6-26.4         | ±24                | ±21 / ±2                      | 1500            | 51                               | 7  | 100                     | 82             |
|                     |                   |                    |                               |                 |                                  |    |                         |                |
| AM1LS-0305DH30-NZ   | 2.97-3.63         | ±5                 | ±100 / ±10                    | 3000            | 389                              | 25 | 100                     | 76             |
| AM1LS-0312DH30-NZ   | 2.97-3.63         | ±12                | ±42 / ±5                      | 3000            | 389                              | 25 | 100                     | 77             |
| AM1LS-0505DH30-NZ** | 4.5-5.5           | ±5                 | ±100 / ±10                    | 3000            | 257                              | 10 | 1200                    | 82             |
| AM1LS-0509DH30-NZ** | 4.5-5.5           | ±9                 | ±56 / ±6                      | 3000            | 254                              | 20 | 470                     | 83             |
| AM1LS-0512DH30-NZ** | 4.5-5.5           | ±12                | ±42 / ±5                      | 3000            | 254                              | 20 | 220                     | 83             |
| AM1LS-0515DH30-NZ** | 4.5-5.5           | ±15                | ±33 / ±3                      | 3000            | 254                              | 30 | 220                     | 83             |
| AM1LS-0524DH30-NZ ‡ | 4.5-5.5           | ±24                | ±21 / ±2                      | 3000            | 250                              | 20 | 100                     | 81             |
| AM1LS-1205DH30-NZ   | 10.8-13.2         | ±5                 | ±100 / ±10                    | 3000            | 111                              | 15 | 100                     | 80             |
| AM1LS-1209DH30-NZ   | 10.8-13.2         | ±9                 | ±56 / ±6                      | 3000            | 104                              | 15 | 100                     | 80             |
| AM1LS-1212DH30-NZ   | 10.8-13.2         | ±12                | ±42 / ±5                      | 3000            | 104                              | 15 | 100                     | 81             |
| AM1LS-1215DH30-NZ   | 10.8-13.2         | ±15                | ±33 / ±3                      | 3000            | 103                              | 15 | 100                     | 81             |
| AM1LS-1224DH30-NZ   | 10.8-13.2         | ±24                | ±21 / ±2                      | 3000            | 103                              | 15 | 100                     | 81             |
| AM1LS-1515DH30-NZ   | 13.5-16.5         | ±15                | ±33 / ±3                      | 3000            | 83                               | 12 | 100                     | 81             |
| AM1LS-2405DH30-NZ‡  | 21.6-26.4         | ±5                 | ±100 / ±10                    | 3000            | 82                               | 10 | 100                     | 82             |
| AM1LS-2409DH30-NZ‡  | 21.6-26.4         | ±9                 | ±56 / ±6                      | 3000            | 52                               | 7  | 100                     | 82             |
| AM1LS-2412DH30-NZ‡  | 21.6-26.4         | ±12                | ±42 / ±5                      | 3000            | 52                               | 7  | 100                     | 82             |
| AM1LS-2415DH30-NZ‡  | 21.6-26.4         | ±15                | ±33 / ±3                      | 3000            | 51                               | 7  | 100                     | 82             |
| AM1LS-2424DH30-NZ‡  | 21.6-26.4         | ±24                | ±21 / ±2                      | 3000            | 51                               | 7  | 100                     | 82             |

‡ With Momentary short circuit protection of 1 second

NOTE 1: Add suffix "TR" to a part number when ordering in tape and reel package

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.

## Input Specifications

| Parameters    | Nominal | Typical   | Maximum | Units |
|---------------|---------|-----------|---------|-------|
| Voltage Range | 3       | 2.97-3.63 |         | VDC   |
|               | 5       | 4.5-5.5   |         |       |
|               | 12      | 10.8-13.2 |         |       |
|               | 15      | 13.5-16.5 |         |       |
|               | 24      | 21.6-26.4 |         |       |

|                                           |                                              |   |                          |     |
|-------------------------------------------|----------------------------------------------|---|--------------------------|-----|
| Absolute Max Input Voltage<br>(1 sec max) | 3 Vin<br>5 Vin<br>12 Vin<br>15 Vin<br>24 Vin |   | 5<br>9<br>18<br>21<br>30 | VDC |
| Filter                                    | Capacitor                                    |   |                          |     |
| AM1LS-0505S-JZ input no load current      |                                              | 5 | 10                       | mA  |

### Isolation Specifications

| Parameters         | Conditions | Typical                    | Maximum | Units |
|--------------------|------------|----------------------------|---------|-------|
| Tested I/O Voltage | 60 sec     | 1500 models<br>3000 Models |         | VDC   |
| Resistance         | 500VDC     | >1000                      |         | MOhm  |
| Capacitance        |            | 20                         |         | pF    |

### Output Specifications

| Parameters                                                              | Conditions                         | Typical      | Maximum | Units    |
|-------------------------------------------------------------------------|------------------------------------|--------------|---------|----------|
| Voltage Accuracy                                                        | 100% load (see tolerance chart)    | ±2.5         |         | %        |
| Short Circuit Protection                                                | Continuous, unless marked with ‡   |              |         |          |
| Short Circuit Restart                                                   | Auto-Recovery                      |              |         |          |
| Line Voltage Regulation                                                 | For ±1% of Vin<br>3.3V models only | ±1.2<br>±1.5 |         | % of Vin |
| Load Voltage Regulation<br>(10% - 100% Load)                            | 3.3V                               | 18           |         | %        |
|                                                                         | 5 V                                | 12           |         |          |
|                                                                         | 6 V                                | 10           |         |          |
|                                                                         | 9 V                                | 8            |         |          |
|                                                                         | 12 V                               | 7            |         |          |
|                                                                         | 15 V                               | 6            |         |          |
| Load Voltage Regulation<br>For Part numbers with**<br>(10% - 100% Load) | 24 V                               | 5            |         | %        |
|                                                                         | 3.3V                               | 15           |         |          |
|                                                                         | 5 V                                | 10           |         |          |
|                                                                         | 9 V                                | 8            |         |          |
|                                                                         | 12 V                               | 7            |         |          |
|                                                                         | 15 V                               | 6            |         |          |
| Temperature Coefficient                                                 | 100% load                          | ±0.03        |         | %/°C     |
|                                                                         | 100% load                          | ±0.02        |         | %/°C     |
| Ripple & Noise                                                          |                                    | 60           |         | mV p-p   |
| Ripple & Noise                                                          |                                    | 30           | 75      | mV p-p   |
| For Part numbers with**                                                 | 24V output models                  | 50           | 100     |          |

### General Specifications

| Parameters                                   | Conditions                                                                                                                     | Typical     | Maximum | Units |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------|---------|-------|
| Switching frequency                          | 100% load                                                                                                                      | 100         | 300     | KHz   |
| Switching frequency (for part number with**) | 100% load                                                                                                                      | 270         |         | KHz   |
| Operating temperature                        | With derating above +100                                                                                                       | -40 to +105 |         | °C    |
| Storage temperature                          | -55 to +125                                                                                                                    |             |         | °C    |
| Cooling                                      | Free air convection                                                                                                            |             |         |       |
| Storage Humidity                             | Non Condensing                                                                                                                 |             | 95      | % RH  |
| Case material                                | Epoxy resin (UL94-V0)                                                                                                          |             |         |       |
| Weight                                       | Single 1.5<br>Dual 1.8                                                                                                         |             |         | g     |
| Weight<br>For Part numbers with***           | 1.4                                                                                                                            |             |         | g     |
| Dimensions (L x W x H)                       | Single Output 0.50 x 0.44 x 0.28inches 12.70 x 11.20 x 7.25mm<br>Dual Output 0.60 x 0.44 x 0.28 inches 15.24 x 11.20 x 7.25 mm |             |         |       |

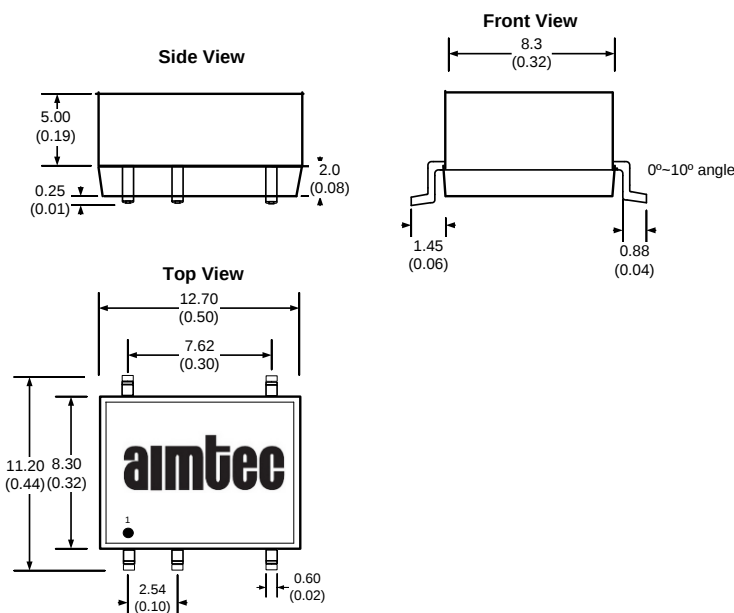
|                                                   |                                                                                                                              |     |    |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----|----|
| Dimensions (L x W x H)<br>For Part numbers with** | Single Output 0.52 x 0.44 x 0.28 inches 13.20*11.40*7.25 mm<br>Dual Output 0.60 x 0.44 x 0.28 inches 15.24 x 11.40 x 7.25 mm |     |    |
| MTBF                                              | >3500Khrs (MIL-HDBK -217F, Ground Benign, t=+25°C)hours                                                                      |     |    |
| Maximum soldering temperature                     | 1.5mm from case for 10 sec                                                                                                   | 300 | °C |
| Maximum case temperature                          |                                                                                                                              | 130 | °C |

## Safety Specifications

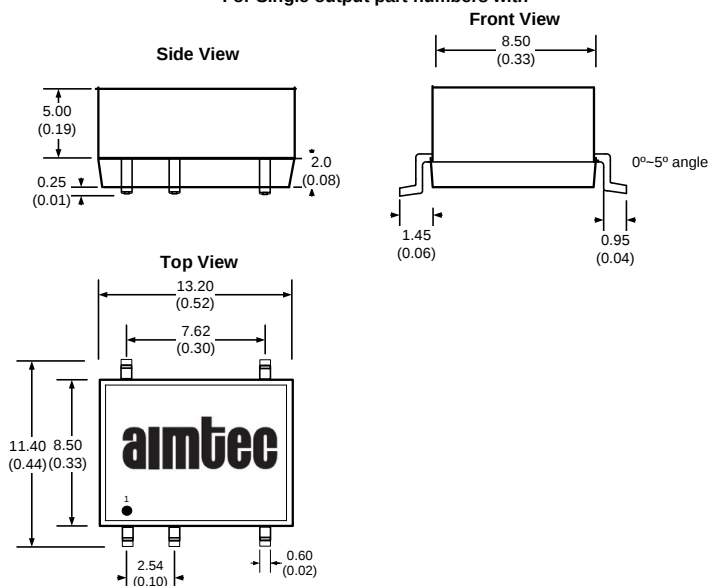
| Parameters                                |                                       |                                                                                                                          |
|-------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Agency approvals                          | UL 60950-1                            | cULus (without 15V input and without 3.3V input of dual output models)<br>(Not applicable for all models with suffix JZ) |
| Standards                                 | EMI - Conducted and radiated emission | EN55022, class B                                                                                                         |
|                                           | Electrostatic Discharge Immunity      | IEC 61000-4-2, Contact +/-8kV, Criteria B                                                                                |
| Standards for part numbers with suffix JZ | EMI - Conducted and radiated emission | EN55032, class B                                                                                                         |
|                                           | Electrostatic Discharge Immunity      | IEC 61000-4-2, Contact +/-4kV, Criteria B                                                                                |

## Pin Out Specifications and Dimensions

| Pin | Single    |
|-----|-----------|
| 1   | - V Input |
| 2   | + V Input |
| 3   | No Pin    |
| 4   | -V Output |
| 5   | +V Output |
| 6   | No Pin    |
| 7   | No Pin    |
| 8   | N.C.      |



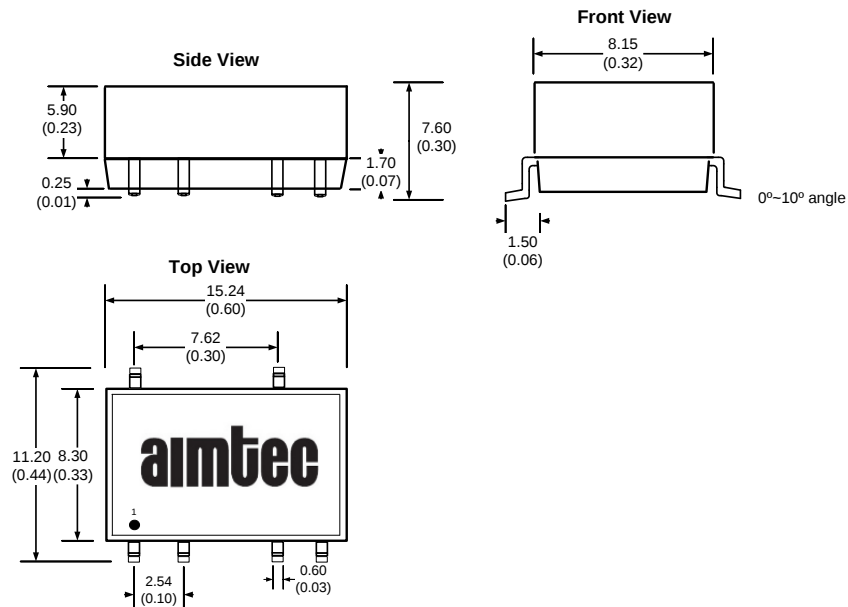
For Single output part numbers with\*\*



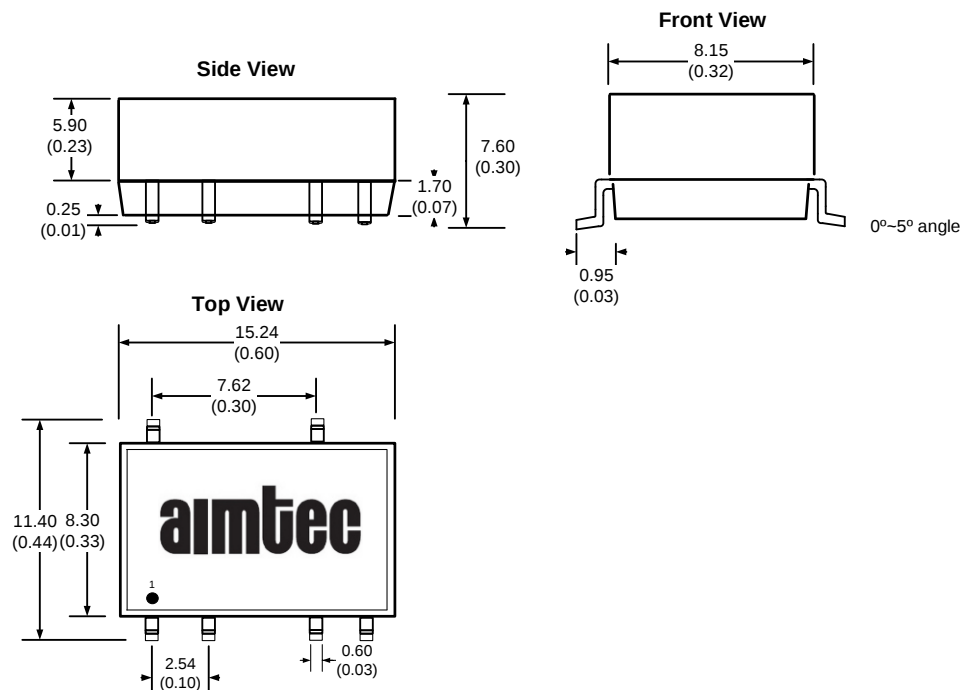
| Pin | Single    |
|-----|-----------|
| 1   | - V Input |
| 2   | + V Input |
| 3   | No Pin    |
| 4   | -V Output |
| 5   | +V Output |
| 6   | No Pin    |
| 7   | No Pin    |
| 8   | N.C.      |

| Pin | Dual Output Models |
|-----|--------------------|
| 1   | -V Input           |
| 2   | +V Input           |
| 3   | No Pin             |
| 4   | Common             |
| 5   | -V Output          |
| 6   | No Pin             |
| 7   | +V Output          |
| 8   | No Pin             |
| 9   | No Pin             |
| 10  | N.C.               |

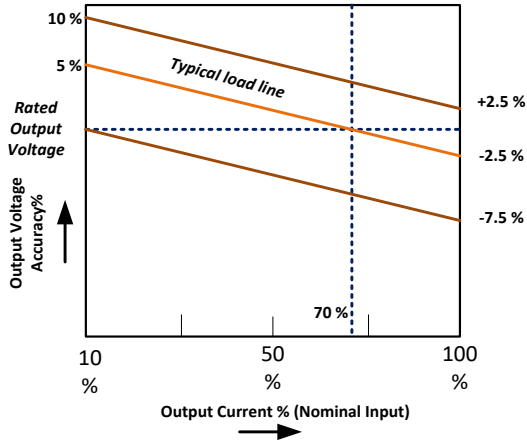
Dual Output Models



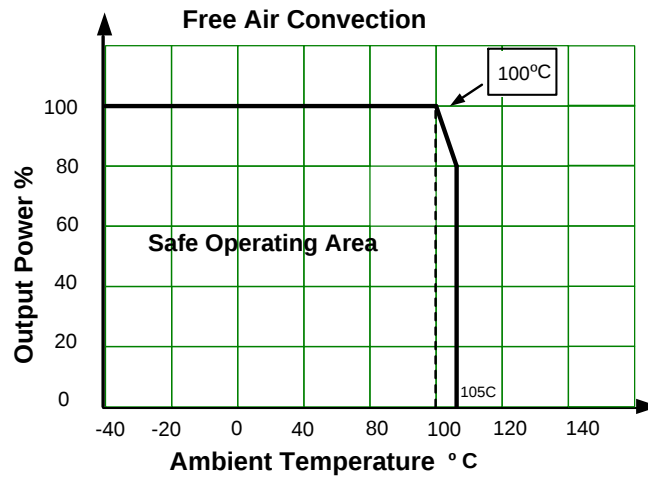
Dual Output Models with \*\*



## Load Accuracy Tolerance Graph



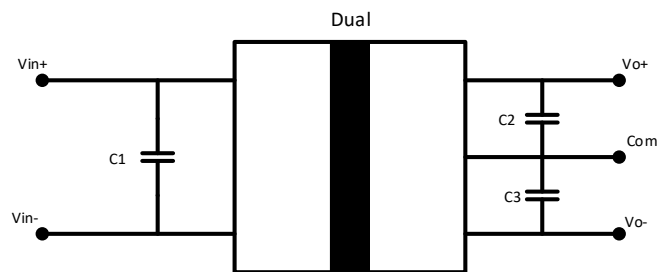
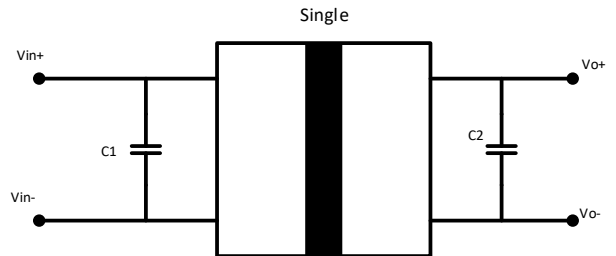
## Derating



## Recommended Circuits

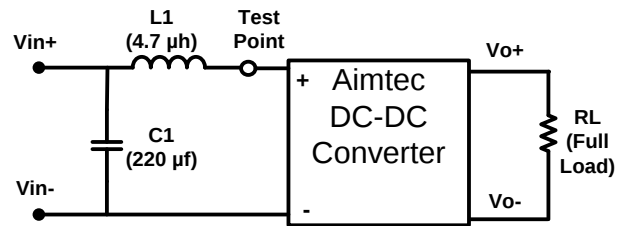
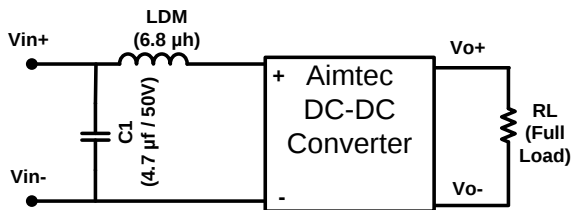
Capacitor selection Table

| Vin | C1          | Single VDC | C2           | Dual VDC   | C2/C3        |
|-----|-------------|------------|--------------|------------|--------------|
| 3.3 | 4.7 $\mu$ F | 3.3 V      | 10 $\mu$ F   | $\pm$ 3.3  | 4.7 $\mu$ F  |
| 5   | 4.7 $\mu$ F | 5V         | 10 $\mu$ F   | $\pm$ 5V   | 4.7 $\mu$ F  |
|     | 4.7 $\mu$ F | 9 V        | 4.7 $\mu$ F  | $\pm$ 9V   | 2.2 $\mu$ F  |
|     | 4.7 $\mu$ F | 12         | 2.2          | $\pm$ 12 V | 1            |
|     | 4.7 $\mu$ F | 15         | 1            | $\pm$ 15 V | 1            |
|     | 4.7 $\mu$ F | 24         | 0.47         |            |              |
| 12  | 2.2 $\mu$ F | 12 V       | 2.2 $\mu$ F  | $\pm$ 12 V | 1 $\mu$ F    |
| 15  | 2.2 $\mu$ F | 15 V       | 1 $\mu$ F    | $\pm$ 15 V | 0.47 $\mu$ F |
| 24  | 1 $\mu$ F   | 24V        | 0.47 $\mu$ F | $\pm$ 24 V | 0.47 $\mu$ F |



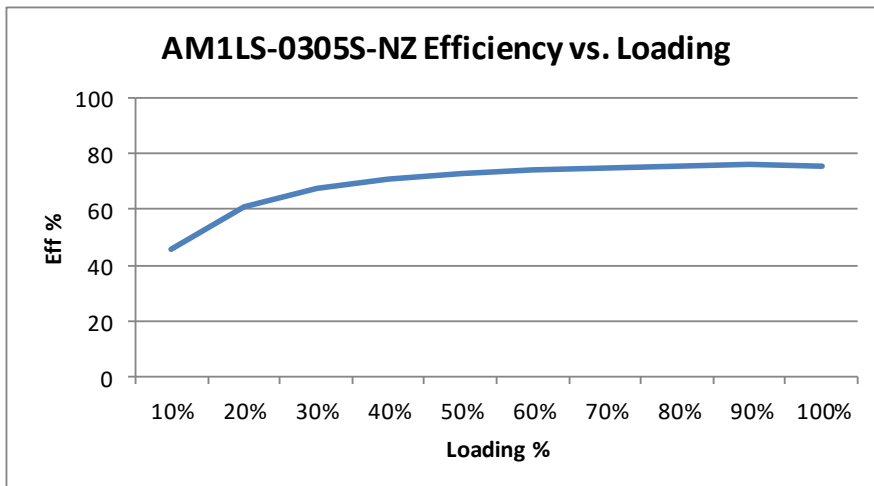
- 1) Ensure output load of Min 10%, or specifications may not be met
- 2) Under normal operation, there is no protection for overload condition
- 3) Converter may exhibit start up delay if capacitive load exceeds recommended
- 4) Ceramic or electrolytic type capacitors are recommended, tantalum type may damage converter
- 5) Parallel connections, or hot swapping is not recommended

**EMI Recommended Circuit (Class B) Input Reflected Ripple Current Test Circuit (for part numbers with suffix NZ)**

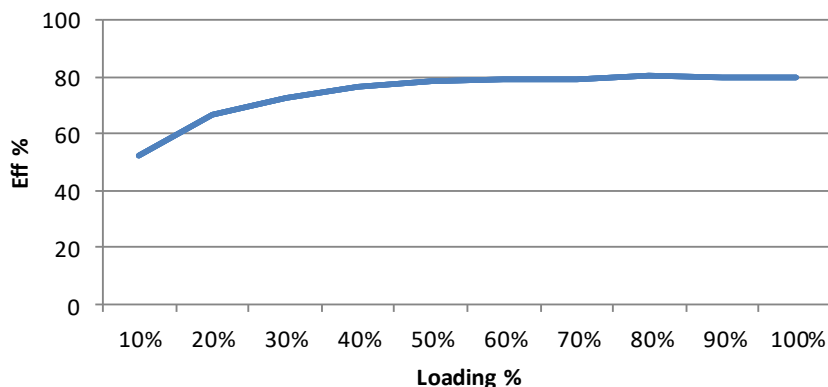


\* Tested at full load, and nominal input

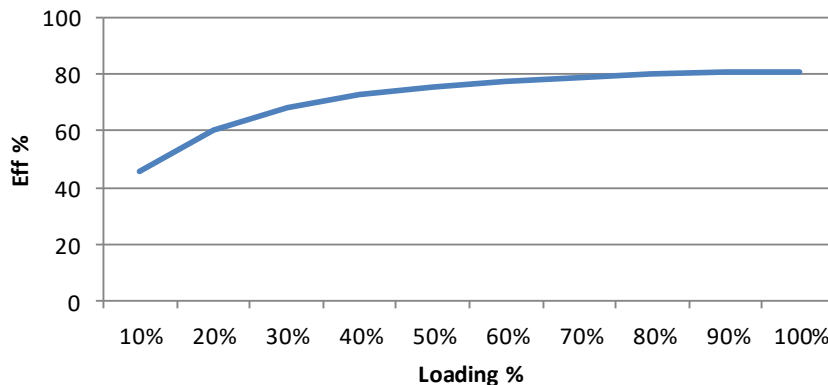
**Typical Efficiency vs. Loading**



**AM1LS-0505S-NZ Efficiency vs. Loading**



**AM1LS-1209S-NZ Efficiency vs. Loading**



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