# AME40-VZ

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Encapsulated

The new AME40-VZ is a brand-new AC/DC converter that offers much greater cost effectiveness due to material normalization and production automation also leading to improved reliability and performance. Due to these improvements, we are proud to offer you this converter at a price never yet seen for a 40W Aimtec AC/DC converter. Offering a commercial input voltage range of 85-264VAC and output voltages of 5, 12, 15, 24 & 48VDC, this series will greatly benefit your new system design.
This new series offers operating temperatures from -40°C to 70°C with full power up to 55°C depending on models. It also features a 4000VAC isolation for improved reliability and system safety.
Furthermore, a higher MTBF of 300,000h, output short circuit protection (OSCP), output over-current protection (OCP) and an output over-voltage protection (OVP) come standard with the series.
The AME40-VZ is suitable for street lighting controls, grid power, instrumentation, industrial controls and communication applications.

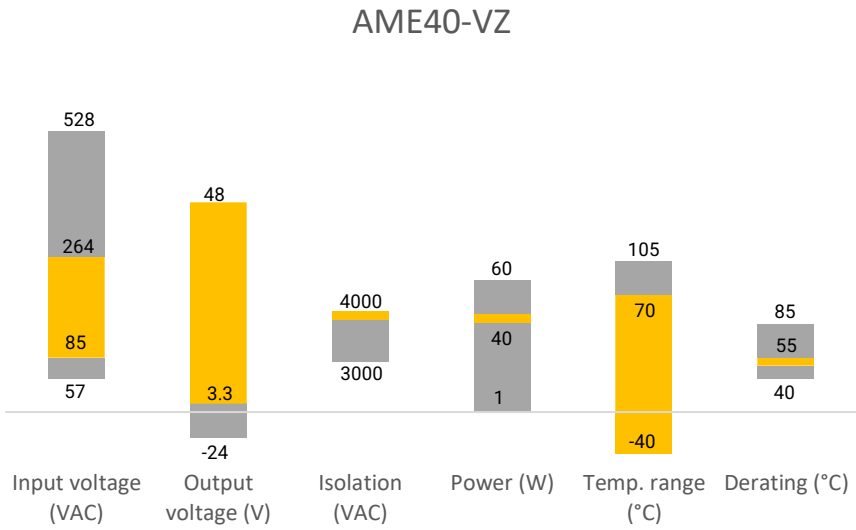
## Features

- Universal Input: 85 - 264VAC/100 - 370VDC
- Operating temperature range: -40°C to +70°C
- High isolation voltage: 4000VAC
- Regulated output, Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- EMC performance meets CISPR32/EN55032 CLASS B
- Certified to IEC62368, UL62368, EN62368 standards (pending)

RoHS

3yr Warranty

## Summary




## Training

Product Training Video (click to open)

Press Release

Coming Soon!

Application Notes

## Applications

Power Grid

Industrial

Telecom

Instrumentation

AME40-15SVZ

| Trim down % | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Vout (VDC) | 14.85 | 14.7 | 14.55 | 14.4 | 14.25 | 14.1 | 13.95 | 13.8 | 13.65 | 13.5 |
| Rt down (KΩ) | 616.5 | 304 | 199.833 | 147.75 | 116.5 | 95.667 | 80.786 | 69.625 | 60.944 | 54 |
| Trim up % | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Vout (VDC) | 15.15 | 15.3 | 15.45 | 15.6 | 15.75 | 15.9 | 16.05 | 16.2 | 16.35 | 16.5 |
| Rt up (KΩ) | 124 | 61.5 | 40.667 | 30.25 | 24 | 19.833 | 16.857 | 14.625 | 12.889 | 11.5 |

AME40-24SVZ

| Trim down % | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Vout (VDC) | 23.76 | 23.52 | 23.28 | 23.04 | 22.8 | 22.56 | 22.32 | 22.08 | 21.84 | 21.6 |
| Rt down (KΩ) | 471.081 | 287.942 | 205.845 | 159.249 | 129.221 | 108.258 | 92.793 | 80.914 | 71.504 | 63.865 |
| Trim up % | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Vout (VDC) | 24.24 | 24.48 | 24.72 | 24.96 | 25.2 | 25.44 | 25.68 | 25.92 | 26.16 | 26.4 |
| Rt up (KΩ) | 239.556 | 64.606 | 36.982 | 25.728 | 19.619 | 15.783 | 13.15 | 11.232 | 9.771 | 8.622 |

AME40-48SVZ

| Trim down % | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Vout (VDC) | 47.52 | 47.04 | 46.56 | 46.08 | 45.6 | 45.12 | 44.64 | 44.16 | 43.68 | 43.2 |
| Rt down (KΩ) | 1217.75 | 757.639 | 546.609 | 425.485 | 346.902 | 291.797 | 251.014 | 219.613 | 194.691 | 174.429 |
| Trim up % | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Vout (VDC) | 48.48 | 48.96 | 49.44 | 49.92 | 50.4 | 50.88 | 51.36 | 51.84 | 52.32 | 52.8 |
| Rt up (KΩ) | 375 | 87.766 | 49.699 | 34.664 | 26.613 | 21.597 | 18.172 | 15.684 | 13.796 | 12.313 |

**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.** All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. **5.** 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. **6.** 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. **7.** Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com.