

18 Watt

- Energy Efficiency Level VI
- European CoC Tier 2
- Universal Input
- Output Voltages from 9 V to 24 V
- Class II Construction
- Low Cost



The VET18 series of desk-top power supplies comply with the very latest energy efficiency level VI standards with high active mode efficiency and extremely low no load power consumption. Available with a standard jack plug connector these adaptors suit a wide variety of cost sensitive applications while maintaining industry leading performance.

Dimensions:

VET18:

4.21 x 1.71 x 1.22" (107.0 x 43.5 x 31.0 mm)

Models & Ratings

| Output Power | Output Voltage | Output Current | Total Regulation ⁽²⁾ | Output Connector | Model Number |
|--------------|----------------|----------------|---------------------------------|---------------------------|-----------------|
| 18 W | 9.0V | 2000 mA | 5% | 5.5 x 2.1 x 12 mm DC Jack | VET18US090C2-JA |
| | 12.0V | 1500 mA | 5% | 5.5 x 2.1 x 12 mm DC Jack | VET18US120C2-JA |
| | 15.0V | 1250 mA | 5% | 5.5 x 2.1 x 12 mm DC Jack | VET18US150C2-JA |
| | 18.0V | 1000 mA | 5% | 5.5 x 2.1 x 12 mm DC Jack | VET18US180C2-JA |
| | 24.0V | 750 mA | 5% | 5.5 x 2.1 x 12 mm DC Jack | VET18US240C2-JA |

Notes

1. Other output voltages available, contact sales for details.

2. Total regulation includes initial set accuracy, line and load regulation.

Input

| Characteristic | Minimum | Typical | Maximum | Units | Notes & Conditions |
|---------------------|-----------------------------|---------|---------|-------|------------------------------|
| Input Voltage | 90 | | 264 | VAC | |
| Input Frequency | 47 | | 63 | Hz | |
| Input Current | | | 0.6 | A | 100 VAC |
| Inrush Current | | | 80 | A | 240 VAC, cold start at 25 °C |
| Power Factor | | | | | EN61000-3-2, class A |
| No Load Input Power | | | 75 | mW | |
| Input Protection | Internal T1.0A/250 VAC fuse | | | | |

Output

| Characteristic | Minimum | Typical | Maximum | Units | Notes & Conditions |
|--------------------------|---------|---------|---------|-------------|---|
| Output Voltage | 9 | | 24 | V | See Models and Ratings table |
| Minimum Load | 0 | | | A | No minimum load required |
| Start Up Delay | | | 4 | s | |
| Start Up Rise Time | | 30 | | ms | |
| Hold Up Time | 8 | | | ms | Full load and 100 VAC |
| Total Regulation | | | 5 | % | See Models and Ratings table |
| Transient Response | | | 4 | % deviation | Recovery within <1% within 500 µs for a 50% step load change at 0.15 A/µs |
| Ripple & Noise | | | 150 | mV pk-pk | Measured with 20 MHz bandwidth and 47 µF electrolytic in parallel with 0.1 µF ceramic capacitor |
| Short Circuit Protection | | | | | Continuous, trip and restart (hiccup mode) with auto recovery |
| Temperature Coefficient | | | 0.05 | %/°C | |

General

| Characteristic | Minimum | Typical | Maximum | Units | Notes & Conditions |
|---------------------------|---------|---------------|---------|--------|---|
| Efficiency | | 85 | | % | Typical average of efficiencies measured at 25%, 50%, 75% and 100% load and 115 VAC input |
| Energy Efficiency | | | | | Level VI |
| Isolation | 3000 | | | VAC | Input to Output |
| Switching Frequency | 24 | | 70 | kHz | Variable |
| Mean Time Between Failure | 250 | | | kHrs | MIL-HDBK-217F at 25 °C GB |
| Weight | | 0.302 (137.0) | | lb (g) | |

Environmental

| Characteristic | Minimum | Typical | Maximum | Units | Notes & Conditions |
|-----------------------|---------|---------|---------|-------|---|
| Operating Temperature | 0 | | +60 | °C | Derate from 100% load at 40 °C to 50% load at 60 °C |
| Storage Temperature | -40 | | +85 | °C | |
| Operating Humidity | 5 | | 95 | % | RH, non-condensing |
| Cooling | | | | | Natural convection |
| Shock | | | | | 1 m drop onto concrete on each of 6 axes |
| Vibration | 10 | | 300 | Hz | 2 g 15 mins/sweep, 60 mins for each of 3 axes |

EMC: Emissions

| Phenomenon | Standard | Test Level | Notes & Conditions |
|------------------|-------------|------------|--------------------|
| Conducted | EN55032 | Level B | |
| Radiated | EN55032 | Level B | |
| Harmonic Current | EN61000-3-2 | Class A | |
| Voltage Flicker | EN61000-3-3 | | |

EMC: Immunity

| Phenomenon | Standard | Test Level | Criteria | Notes & Conditions |
|------------------------|------------------|--|----------|--------------------|
| ESD Immunity | EN61000-4-2 | ±4 kV contact, ±8 kV air | A | |
| Radiated Immunity | EN61000-4-3 | 3 V/m | A | |
| EFT/Burst | EN61000-4-4 | Level 2 | A | |
| Surge | EN61000-4-5 | Level 2 | A | |
| Conducted Immunity | EN61000-4-6 | 3 V | A | |
| Magnetic Fields | EN61000-4-8 | 1 A/m | A | |
| Dips and Interruptions | EN55024 (115VAC) | 100% U _T (0 VAC) for 10 ms | A | |
| | | 30% U _T (80.5 VAC) for 500 ms | A | |
| | | 100% U _T (0 VAC) for 5000 ms | B | |
| | EN55024 (230VAC) | 100% U _T (0 VAC) for 10 ms | A | |
| | | 30% U _T (161 VAC) for 500 ms | A | |
| | | 100% U _T (0 VAC) for 5000 ms | B | |

Safety Approvals

| Phenomenon | Standard |
|------------|---|
| CB Report | IEC60950-1 |
| UL | UL/cUL60950-1, approved as limited power source (LPS) |
| TUV | EN60950-1 |
| CCC | China Compulsory Certification, GB4943 |
| AU/NZ | AU/NZ 60950.1 |

Mechanical Details

VET18USXXXC2-JA



Output Lead and Connection



Wire type: VW-1 80°C 300V L=1500 mm 2468, 22 AWG for 12 V output, 24 AWG for other outputs, 2C Black and White. Black - Negative, White - Positive





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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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