


SERIES: VSUU-120-D | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 120 W continuous power
- industry standard 3" x 5" footprint
- universal input (90-260 Vac / 130-370 Vdc)
- dual output
- active power correction
- internal EMI filter
- no minimum load required
- UL/cUL and TUV safety approvals
- class I
- efficiency 80%
- input surge current, over voltage, over load, and over current protections



| MODEL | | output voltage | output current | output power | ripple and noise | efficiency |
|----------------|-----|----------------|----------------|--------------|------------------|------------|
| | | (Vdc) | max (A) | max (W) | max (mVp-p) | typ (%) |
| VSUU-120-D305 | Vo1 | 3.3 | 15 | 79.5 | 66 | 80 |
| | Vo2 | 5 | 6 | 79.5 | 50 | 80 |
| VSUU-120-D312 | Vo1 | 3.3 | 15 | 120 | 66 | 80 |
| | Vo2 | 12 | 6 | 120 | 120 | 80 |
| VSUU-120-D512 | Vo1 | 5 | 15 | 120 | 50 | 80 |
| | Vo2 | 12 | 6 | 120 | 120 | 80 |
| VSUU-120-D515 | Vo1 | 5 | 15 | 120 | 50 | 80 |
| | Vo2 | 15 | 6 | 120 | 150 | 80 |
| VSUU-120-D524A | Vo1 | 5 | 15 | 120 | 50 | 80 |
| | Vo2 | 24 | 3.5 | 120 | 240 | 80 |
| VSUU-120-D524B | Vo1 | 5 | 15 | 120 | 50 | 80 |
| | Vo2 | -24 | 2 | 120 | -240 | 80 |
| VSUU-120-D285 | Vo1 | 28 | 3.92 | 120 | 280 | 80 |
| | Vo2 | 5 | 2 | 120 | 50 | 80 |

PART NUMBER KEY
VSUU-120 - DXXX - X

Base Number Output Voltage Power Fail Detect
 "Blank" = No
 P = Yes

INPUT

| parameter | conditions/description | min | typ | max | units |
|----------------|--|------|------|-----|-------|
| voltage | | 90 | | 260 | Vac |
| | | 130 | | 370 | Vdc |
| frequency | | 47 | | 63 | Hz |
| current | at 115 Vac, full load | | | 1.7 | A |
| | at 230 Vac, full load | | | 1.0 | A |
| inrush current | at 115 Vac, 25°C, full load, cold start at 230 Vac, 25°C, full load, cold start | | 12 | 15 | A |
| | | | 26 | 30 | A |
| power factor | full load at 90 ~ 260 Vac | 0.95 | 0.97 | 1.0 | |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|-------------------------|-----------------------------------|-----|--------|-----|-------|
| line regulation | full load | | 0.5 | 1 | % |
| load regulation | at 230 Vac | | 3 | 5 | % |
| temperature coefficient | all output | | ± 0.04 | | %/°C |
| transient response | full load to half load at 100 Vac | | | 4 | ms |
| start-up | full load at 100 Vac | 0.3 | 1 | 2 | s |
| hold-up | full load at 110 Vac | 16 | | | ms |

PROTECTIONS

| parameter | conditions/description | min | typ | max | units |
|-------------------------|------------------------|-----|-----|-----|-------|
| over voltage protection | | 112 | | 132 | % |
| over current protection | | 110 | | 150 | % |

SAFETY & COMPLIANCE

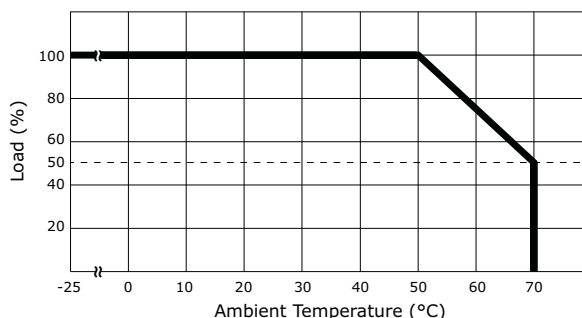
| parameter | conditions/description | min | typ | max | units |
|----------------------|--|-------|-----|------|-------|
| isolation voltage | primary to secondary | 4,242 | | | Vdc |
| | primary to earth ground | 2,121 | | | Vdc |
| isolation resistance | test voltage of 500 Vdc | 50 | | | MΩ |
| safety approvals | UL 60950-1 2nd edition, EN 60950-1 2nd edition | | | | |
| EMI/EMC | CISPR 22 class B, FCC part-15 class B | | | | |
| leakage current | full load at 240 Vac | | 0.4 | 0.75 | mA |
| RoHS compliant | yes | | | | |

ENVIRONMENTAL

| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 70 | °C |
| storage temperature | | -40 | | 85 | °C |
| operating humidity | non-condensing | 5 | | 95 | % |
| storage humidity | | 5 | | 95 | % |

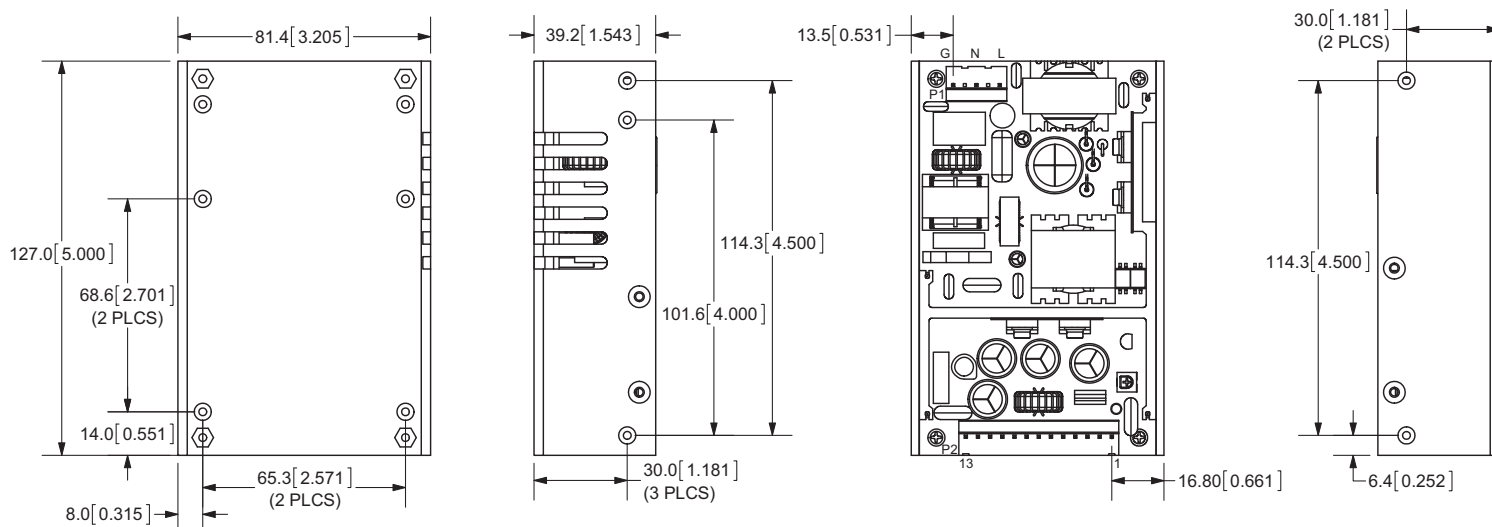
DERATING CURVES

output power vs. ambient temperature



MECHANICAL DRAWING

units: mm[inches]
tolerance: ±0.5mm



- note:
- Weight: 330~380 g (approx.)
 - Input connector mates with Molex housing 09-50-3051 and Molex 2478 or 2578 series crimp terminal.
 - Output connector mates with Molex housing 09-50-3131 and Molex 2478 or 2578 series crimp terminal.

| CN2 | | | | | | | | | | | | | |
|----------------|-----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| Model No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| VSUU-120-D524B | n/c | n/c | V1 | V1 | V1 | V1 | com | com | com | V2 | com | com | n/c |
| VSUU-120-D285 | n/c | n/c | V1 | V1 | V1 | V1 | com | com | com | V2 | com | com | n/c |
| VSUU-120-DXXX | V2 | V2 | V1 | V1 | V1 | V1 | com | com | com | n/c | com | com | n/c |

*pin 13 for optional power fail detect

REVISION HISTORY

| rev. | description | date |
|------|-----------------------------|------------|
| 1.0 | initial release | 11/19/2010 |
| 1.01 | new template applied | 12/19/2011 |
| 1.02 | V-Infinity branding removed | 08/16/2012 |

The revision history provided is for informational purposes only and is believed to be accurate.



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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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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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