

Features

- 25-30W isolated output
- Efficiency to 85%
- 2:1 input range
- Six sided shield
- Remote On/Off Control
- Output Trimming



| Model Number | Input Voltage | Output Voltage | Output Current | Input Current | | Effic. | Case |
|------------------|---------------|----------------|----------------|---------------|-----------|--------|------|
| | | | | No Load | Full Load | | |
| VCD30-D12-S5-T | 9-18VDC | 5VDC | 5000mA | 30mA | 2675mA | 78% | C |
| VCD30-D12-S12-T | 9-18VDC | 12VDC | 2500mA | 30mA | 3050mA | 82% | C |
| VCD30-D12-S15-T | 9-18VDC | 15VDC | 2000mA | 30mA | 3050mA | 82% | C |
| VCD30-D12-D5-T | 9-18VDC | ±5VDC | ±2500mA | 35mA | 2675mA | 78% | C |
| VCD30-D12-D12-T | 9-18VDC | ±12VDC | ±1250mA | 35mA | 3050mA | 82% | C |
| VCD30-D12-D15-T | 9-18VDC | ±15VDC | ±1000mA | 35mA | 3050mA | 82% | C |
| VCD30-D12-S3R3-T | 9-18VDC | 3.3VDC | 5000mA | 30mA | 1860mA | 74% | C |
| VCD30-D24-S5-T | 18-36VDC | 5VDC | 5000mA | 30mA | 1336mA | 79% | C |
| VCD30-D24-S12-T | 18-36VDC | 12VDC | 2500mA | 30mA | 1525mA | 82% | C |
| VCD30-D24-S15-T | 18-36VDC | 15VDC | 2000mA | 30mA | 1525mA | 82% | C |
| VCD30-D24-D5-T | 18-36VDC | ±5VDC | ±2500mA | 30mA | 1336mA | 79% | C |
| VCD30-D24-D12-T | 18-36VDC | ±12VDC | ±1250mA | 30mA | 1470mA | 85% | C |
| VCD30-D24-D15-T | 18-36VDC | ±15VDC | ±1000mA | 30mA | 1470mA | 85% | C |
| VCD30-D48-S5-T | 36-72VDC | 5VDC | 5000mA | 20mA | 660mA | 79% | C |
| VCD30-D48-S12-T | 36-72VDC | 12VDC | 2500mA | 20mA | 765mA | 82% | C |
| VCD30-D48-S15-T | 36-72VDC | 15VDC | 2000mA | 20mA | 765mA | 82% | C |
| VCD30-D48-D5-T | 36-72VDC | ±5VDC | ±2500mA | 25mA | 660mA | 79% | C |
| VCD30-D48-D12-T | 36-72VDC | ±12VDC | ±1250mA | 25mA | 735mA | 85% | C |
| VCD30-D48-D15-T | 36-72VDC | ±15VDC | ±1000mA | 25mA | 735mA | 85% | C |
| VCD30-D48-S3R3-T | 36-72VDC | 3.3VDC | 5000mA | 20mA | 460mA | 75% | C |

Input

| | | |
|---------------------|---------|--------|
| Input Voltage Range | 12V: | 9-18V |
| | 24V: | 18-36V |
| | 48V: | 36-72V |
| Input Filter | Pi Type | |

Output

| | | |
|---|--|--------------------------|
| Voltage Accuracy | Single Output | ±2.0% max. |
| | Dual +Output | ±2.0% max. |
| | -Output | ±3.0% max. |
| | Triple, 5V 12V/15V | ±2.0% max. ±5.0% max. |
| Voltage Balance (Dual) | ±1.0% max | |
| Transient Response: Single Output: 25% Step Load Change | <500µS | |
| | Dual Output: FL~1/2L, ±1% Error Band <500µS | |
| External Trim Adj. Range | ±10% | |
| Ripple & Noise | 20MHz BW | 10mV RMS., max |
| | | 75mV p-p, max |
| Temperature Coefficient | ±0.02%/°C | |
| Short Circuit Protection | Continuous | |
| Line Regulation ¹ | Single/Dual | ±0.5% max. |
| | Triple | ±1.0% max. |
| Load Regulation ² | Single/Dual | ±1.0% max. |
| | Triple | ±5.0% max. |

General Specifications

| | |
|-----------------------------|--|
| Efficiency | see table |
| Isolation Voltage | 500VDC min. |
| Isolation Resistance | 10 ⁹ Ohm min. |
| Switching Frequency | 300KHz, Typical |
| Case Grounding | Connected to Output common |
| Operating Temperature Range | -25°C to +71°C |
| Case Temperature | 100°C max. |
| Cooling | Free-Air Convection |
| Storage Temperature | -55°C to +105°C |
| EMI/RFI | Six Sided Continuous Shield |
| Dimensions | 2x2x0.4 inches |
| | (50.8x50.8x10.2mm) |
| Case Material | Black coated copper with non-conductive base |

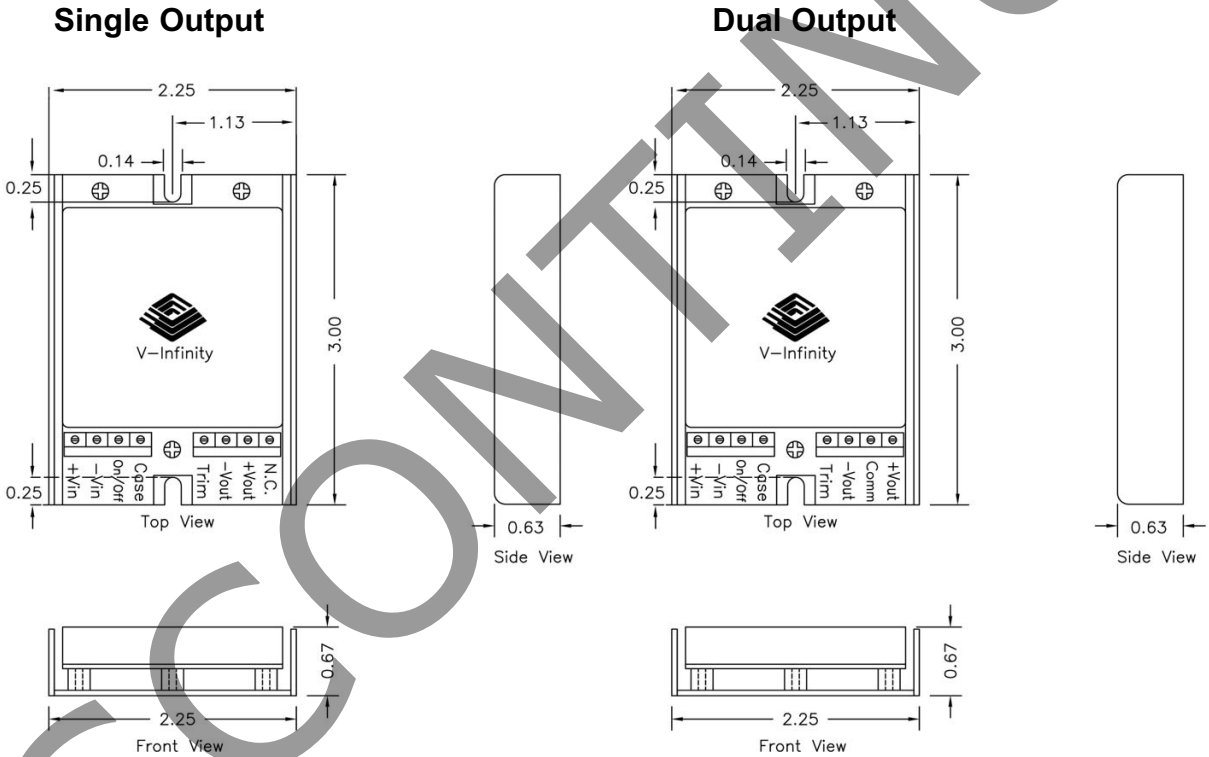
NOTES:

1. Measured from High Line to Low Line
2. Measured from Full Load to 1/4 Load

Trim Method

External Trim Resistors

| Model | Output Voltage | VR | R1 | R2 |
|--------|----------------|----|-------|------|
| Single | 5V | 1K | 1.0K | 680Ω |
| Output | 12V | 1K | 3.9K | 680Ω |
| Models | 15V | 1K | 5.6K | 750Ω |
| Dual | ±5V(10V) | 1K | 3.3K | 680Ω |
| Output | ±12V(24V) | 5K | 9.0K | 820Ω |
| Models | +15V(30V) | 5K | 20.0K | 910Ω |



*DIN rail mounting kit available (part# STK-DIN)

PIN Definitions

| | |
|--------|--|
| +Vin: | Input positive terminal |
| -Vin: | Input negative terminal |
| CNT: | Remote On/Off control of output voltage. Referenced to -Vin |
| +Vout: | Main output positive terminal |
| -Vout: | Output negative terminal |
| Com: | Common node for dual- or triple-output models |
| Trim: | For trimming output voltage on single- or dual-output models |
| Case: | Connected to chassis |

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