

Ultra Compact, 15W to 30W Single Output DC-DC Converters

Features

- ◆ Compact Footprint / Low Profile
- ◆ 24V & 48V Inputs
- ◆ 3.3V to 15V Outputs
- ◆ Five Sided Shielding (Cased Version)
- ◆ Input - Output Isolation
- ◆ Parallel Operation
- ◆ Through Hole or SMT Versions
- ◆ DC OK signal
- ◆ Sequencing pin



Key Market Segments & Applications



| Specifications | | | | | |
|--|------|---|----|-------|-----|
| Model | | | | | |
| Nominal Output Voltage | V | 3.3V | 5V | 12V | 15V |
| DC Input | VDC | 24V Nominal: 18-36V, 48V Nominal: 36-76V | | | |
| Efficiency | % | 89 to 92% model dependant | | | |
| Initial set accuracy | % | ±1% | | | |
| Total Regulation limits | % | +5%, -3% | | | |
| Output Adjustment | - | None | | | |
| Temperature Coefficient | %/°C | <0.02%/°C | | | |
| Preload | A | None | | | |
| Output Ripple | mV | 50mV | | 150mV | |
| Overcurrent Protection | - | > 103% of nominal rating | | | |
| Overvoltage protection | - | Operates at 115 - 145% of nominal voltage | | | |
| Remote On/Off (RC) | - | Logic high (pull high to shutdown), referenced to -Vin | | | |
| Alarm (ALM) | - | Low On Fail, referenced to -Vin. 20 units maximum | | | |
| Sequencing (PO) | - | Connecting PO terminals on multiple power supplies ensures all simultaneously start up (20 units maximum) | | | |
| Cooling | - | Convection | | | |
| Operating Temp. Range | °C | -40 to 85°C, see derating curves on website | | | |
| Storage Temperature | °C | -40 to 85°C | | | |
| Humidity (Non condensing) | %RH | 5 - 95%RH | | | |
| Isolation Voltage (Cased version) | VDC | 1000VDC 1 min. Input-Output, Input-Chassis, Output-Chassis | | | |
| Isolation Voltage (Uncased version) | VDC | 1500VDC 1 min. Input-Output | | | |
| Isolation Resistance | - | >50M at 25°C and 70%RH, 500 VDC Input-Output, Input-Case, Output-Case | | | |
| Shock (Non operating) | - | 980m/s ² (100G), 6ms, 6 directions, 3 times | | | |
| Vibration (non operating) | - | 10-55-10 Hz (sweep for 15 min.) 1.52mm amplitude, 2 hour X, Y, Z | | | |
| Safety Certifications | - | UL60950-1, CSA C22.2 No.60950-1 (c-UL), EN60950-1 | | | |
| Weight | g | With case: CC15 15g, CC30 20g. Without case: CC15 10g, CC30 15g | | | |
| Size (LxWxH) (Thru hole ver., w/ case) | mm | CC15: 38.4 x 6.8 x 29.6mm, CC30: 38.4 x 8.3 x 33.5mm | | | |
| Warranty | yrs | 5 years | | | |

Note: See Installation Manual for full specifications, test methods of parameters and application notes

Model Selector

| Output Volt.(V) | Output Curr.(A) | Max O/P Pwr (W) | 24V Input | 48V Input |
|-----------------|-----------------|-----------------|----------------|----------------|
| 3.3 | 4.5 | 15 | CC15-2403SFP-E | CC15-4803SFP-E |
| 3.3 | 9 | 30 | CC30-2403SFP-E | CC30-4803SFP-E |
| 5 | 3 | 15 | CC15-2405SFP-E | CC15-4805SFP-E |
| 5 | 6 | 30 | CC30-2405SFP-E | CC30-4805SFP-E |
| 12 | 1.25 | 15 | CC15-2412SFP-E | CC15-4812SFP-E |
| 12 | 2.5 | 30 | CC30-2412SFP-E | CC30-4812SFP-E |
| 15 | 1 | 15 | CC15-2415SFP-E | CC15-4815SFP-E |
| 15 | 2 | 30 | CC30-2415SFP-E | CC30-4815SFP-E |

Options

| Version | PIN | Case |
|----------------|--------------|------|
| CCxx-yyyySFP-E | Through hole | Yes |
| CCxx-yyyySFH-E | Through hole | No |
| CCxx-yyyySRP-E | SMT | Yes |
| CCxx-yyyySRH-E | SMT | No |

Where xx is output power & yyyy is input and output voltage combination. Shaded line is Preferred model

Outline Drawing CC15-xxxxSFP-E

