

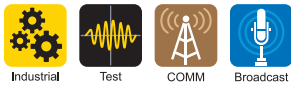
## Ultra Compact, 15W to 30W Single Output DC-DC Converters

### 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 <sup>2</sup> (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                                                                                                   |    |       |     |

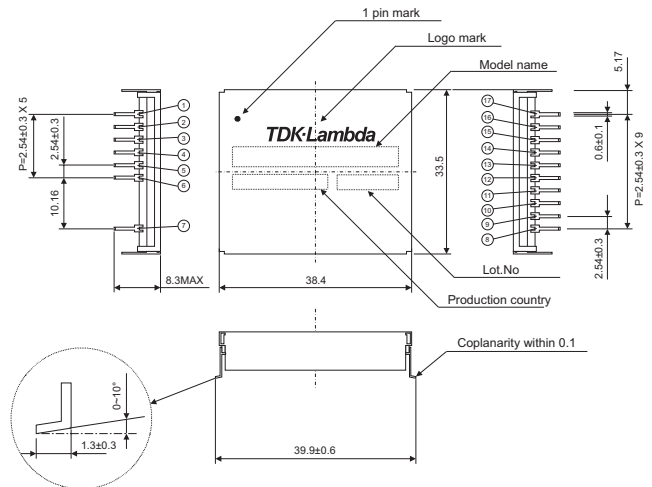
Note: See Installation Manual for full specifications, test methods of parameters and application notes

## 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 CC30-xxxxSRP-E



For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/cc-series.htm](http://us.tdk-lambda.com/lp/products/cc-series.htm)

