

CS1600 120W, High-efficiency PFC + Fluorescent Lamp Driver Reference Design

Features

- ❑ Line Voltage Range: 108 to 305 VACrms
- ❑ Output Voltage (V_{LINK}): 460V
- ❑ Rated Maximum P_{in} : 120W
- ❑ Spread Spectrum Switching Frequency
- ❑ Integrated Digital Feedback Control
- ❑ Low Component Count

General Description

The CRD1600-120W board demonstrates the performance of the CS1600 digital PFC controller in an electronic ballast application. The CRD1600 uses a resonant second stage driver to power up to two T5 fluorescent lamps. The CRD1600 has been designed to fit into a slimline T5 fluorescent electronic ballast form-factor.

To get the complete data sheet, please visit:

www.cirrus.com/PFCdatasheets/CRD1600-07



Actual Size:
349 mm x 25 mm
13.75 in x 1 in

CS1600 120W, High-efficiency PFC Demonstration Board

Features

- ❑ Line Voltage Range: 108 to 305 VACrms
- ❑ Output Voltage (V_{LINK}): 460V
- ❑ Rated P_{out} : 115W
- ❑ Efficiency: 95% @ 115W
- ❑ Spread Spectrum Switching Frequency
- ❑ Integrated Digital Feedback Control
- ❑ Low Component Count

General Description

The CDB1600-120W board demonstrates the performance of the CS1600 digital PFC controller as a stand-alone unit. This board is 95% efficient at full load, and has been tailored for use with a resonant second stage to power up to two T5 fluorescent lamps for a maximum output power of 108W. A resonant second stage driver efficiency of 94% is assumed for this application.

To get the complete data sheet, please visit:

www.cirrus.com/PFCdatasheets/CDB1600-07



Actual Size:
223 mm x 38 mm
8.75 in x 1.5 in