



# HDC Module

## HDC028A280x320y-00



### Isolated, Regulated DC-DC Converter

#### Features

- Isolated, regulated DC-to-DC converter
- Up to 320 W, 11.4 A continuous
- 93% peak efficiency
- 121 W/in<sup>2</sup> power density
- Wide input range 16 to 50 Vdc
- ZVS high frequency (MHz) switching
  - Enables low profile, high-density filtering
- Full operation during current limit
- OV, OC, UV, short circuit and thermal protection
- Through-hole Brick Package

#### Overview

- Part of the new HD Series of power conversion products
- Companion models to HDR Regulator Family
- Input Voltage: 16 to 50 Vdc
- Output: 28 Vdc
- Output Current up to 11.4 Amperes
- Agency approvals: CE Mark

#### Product Overview

The HDC Isolated, Regulated DC Converter is a DC-to-DC converter, operating from an unregulated, wide range input to generate an isolated 28 Vdc output. With its high frequency zero voltage switching (ZVS) topology, the HDC consistently delivers high efficiency across the input line range. Modular HDC and downstream DC-DC products support efficient power distribution, providing superior power system performance and connectivity from a variety of unregulated power sources to the point-of-load.

#### Part Number Designation

Model	Input Voltage	Package	Output Voltage (Nom.) x 10	Temperature Grade	Power	Pin / Base	-	Rev / Var
HDC	028	A	280	C	320	L	-	00

HDC = HD Converter Family

028 = 16 - 50 Vdc

A Series

320 = Max rated output power  
  
 C = -20°C > T<sub>STG</sub> > 100°C, -20°C > T<sub>J</sub> > +125°C  
 T = -40°C > T<sub>STG</sub> > 100°C, -40°C > T<sub>J</sub> > +125°C  
 M = -65°C > T<sub>STG</sub> > 100°C, -55°C > T<sub>J</sub> > +125°C

L = Flanged baseplate  
 N = Flangeless baseplate

00 = Module  
 CB = Evaluation Board