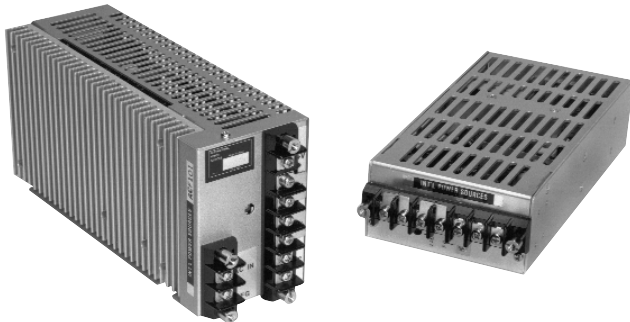


# DC/DC Converters

## 100/150 Watts DCE/DCF Series

**XPiQ inc.**

Intelligent Design Quality Product



- Efficiency to 90%
- Isolated Outputs
- Wide Input Ranges
- Adjustable Outputs
- Remote Sense
- Remote Disable
- Input/Output Protection

## Specification

### Input

- *Input Voltage Range* • See Table
- *Input Filter* •  $\pi$  Network
- *Input Protection* • Shunt Diode/Fuse

### Output

- *Voltage Adjustment* •  $\pm 10\%$
- *Line Regulation (Full Input Range)* • 0.8%
- *Load Regulation (No Load-Full Load)* • 0.9%
- *Ripple & Noise (DC-100MHz)* • 1% of  $V_{OUT}$  & 50mV p-p
- *Temperature Coefficient* • 0.03%/°C
- *Overvoltage Protection* • Output Shutdown
- *Short Circuit Protection* • Foldback Current Limit
- *Remote Sense* • Standard
- *Remote Disable* • Connect RC to (-) S

### General

- *Switching Frequency* • 50 kHz Typical
- *Efficiency* • 85% Typical
- *Isolation (Input-Output-Case)* • 500 VDC (50 Mohm)
- *Weight* • DCE 1.8 lbs, DCF 3.1 lbs

### Environmental

- *Operating Temperature* • 0°C to 50°C (to 60°C @ 50% Load)
- *Storage Temperature* • -40°C to 85°C
- *Humidity* • 85%
- *Vibration* • (5-10Hz) 10mm, (10-55Hz) 2G
- *Shock* • 30G
- *Safety* • UL 1012 Compliance

OUTPUT VOLTAGE & CURRENT RATINGS			DCE/DCF
Output Code	Output Voltage	DCE Output Current*	DCF Output Current*
01	5 VDC	20.0 A (18.0) A	30.0 (27.0) A
02	12 VDC	9.0 A	14.0 (13.0) A
03	15 VDC	7.0 A	11.0 (10.0) A
04	24 VDC	5.0 (4.5) A	7.0 (6.5) A
10	48 VDC	2.0 A	3.5 (3.3) A

\*Output current on 12V input model in ( ).

### Ordering Guide: Series/Input Code/Output Code

Example: DCE 201 - 100 Watt Series, 24 Volt Input, 5 Volt Output @ 20 AMPS

Series	Output
DCE	100 Watts
DCF	150 Watts

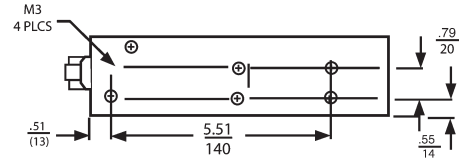
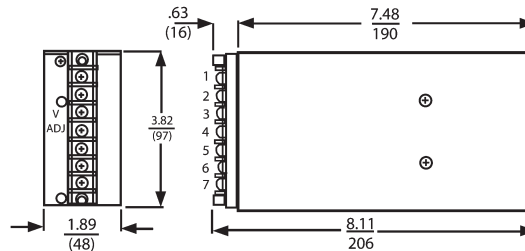
Input Code**	Input Range
1	12 volt nominal (9-16 VDC)
2	24 volt nominal (19-32 VDC)
3	48 volt nominal (38-63 VDC)
4	110 volt nominal (85-140 VDC)

Output Code
From Chart Above

### Mechanical Details

Terminal	DCE	DCF
1	+Vout	+Vout
2	+Vout	+Vout
3	-Vout	+S
4	-Vout	-S
5	Case Gnd (FG)	-Vout
6	-Vin	-Vout
7	+Vin	RC
8	-	+Vin
9	-	-Vin
10	-	Case Gnd (FG)

DCE Model



DCF Model

