

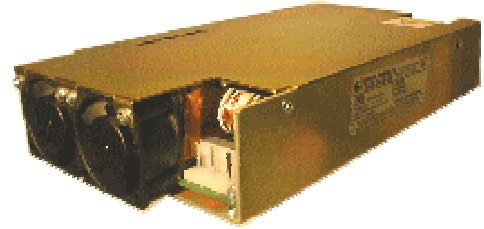
# DCFL250 SERIES

## 250 Watt DC-DC Converter



### Features:

- Fully isolated input to output
- Low profile - High density format
- Input voltages from 24Vdc to 400Vdc
- Reverse polarity protected
- Up to five outputs available
- Output voltages up to 600Vdc
- Hot swap capability
- Thermal protection as standard



Low profile: 212.5 x 116 x 43mm

### Description:

The DCFL250 series offers 250W of power, available with up to 5 outputs. Optional features include Molex or screw terminal connection, powerfail signal, output remote sense and front panel as required. Fan cooled. Input voltages from 24 to 400Vdc. Output voltages to 600Vdc.

### Specification:

#### Input

Input range : Contact sales  
Inrush current : Meets relevant pts. BTNR 2511  
Input current : Dependant upon input voltage requirement  
Hold up time : >4mS @ full load  
Input fuse: Consult sales

#### Output

Output voltages / currents : 600Vdc max / 40A Current  
Voltage adjustment : +/- 5% (V1)+/- 2% (V3)  
Initial setting : 0.5%  
Load /cross regulation : <1% single o/p;(2.5% V1,3,4) ( 8% V5 )  
Line regulation : <0.5%  
Ripple and noise: 0.2%RMS, 1% peak DC - 30MHz  
Transient deviation : 5% for 50% load variation  
Transient time : 2mS  
Over voltage protection : 115 - 125% of V1  
Over current protection : All outputs  
Output power : 250 Watts fan cooled  
Temperature coefficient : 0.02%/°C (V1)0.05%(V2-V5)  
Shock and vibration : Meets MIL STD810E

#### Options

Output OK signal  
Remote sense  
ORing diodes for N+1  
5mm screw or Molex connection  
External voltage / current control via potentiometer  
Front panel as required for rack mount  
Current share for parallel operation

#### Output ratings

Up to five outputs available  
Output voltages up to 600Vdc  
Max 40A current

#### General

Efficiency:  
75-80% typical @ full load

MTBF:  
>100,000 hrs to MIL217E @ 25°C

#### Environmental

Operating Temperature:  
0 - 70°C De-rate at 2.5% /°C above 50°C

Storage Temperature:  
-25°C to + 85°C

Operating humidity:  
0 to 95% RH non-condensing

#### Safety & EMC

Isolation, input to earth : 2.5kVdc, >2.5mm  
Isolation, input to output : 4.25KVdc, >6.4mm  
Isolation, output to earth :  
500Vdc (unless commoned)

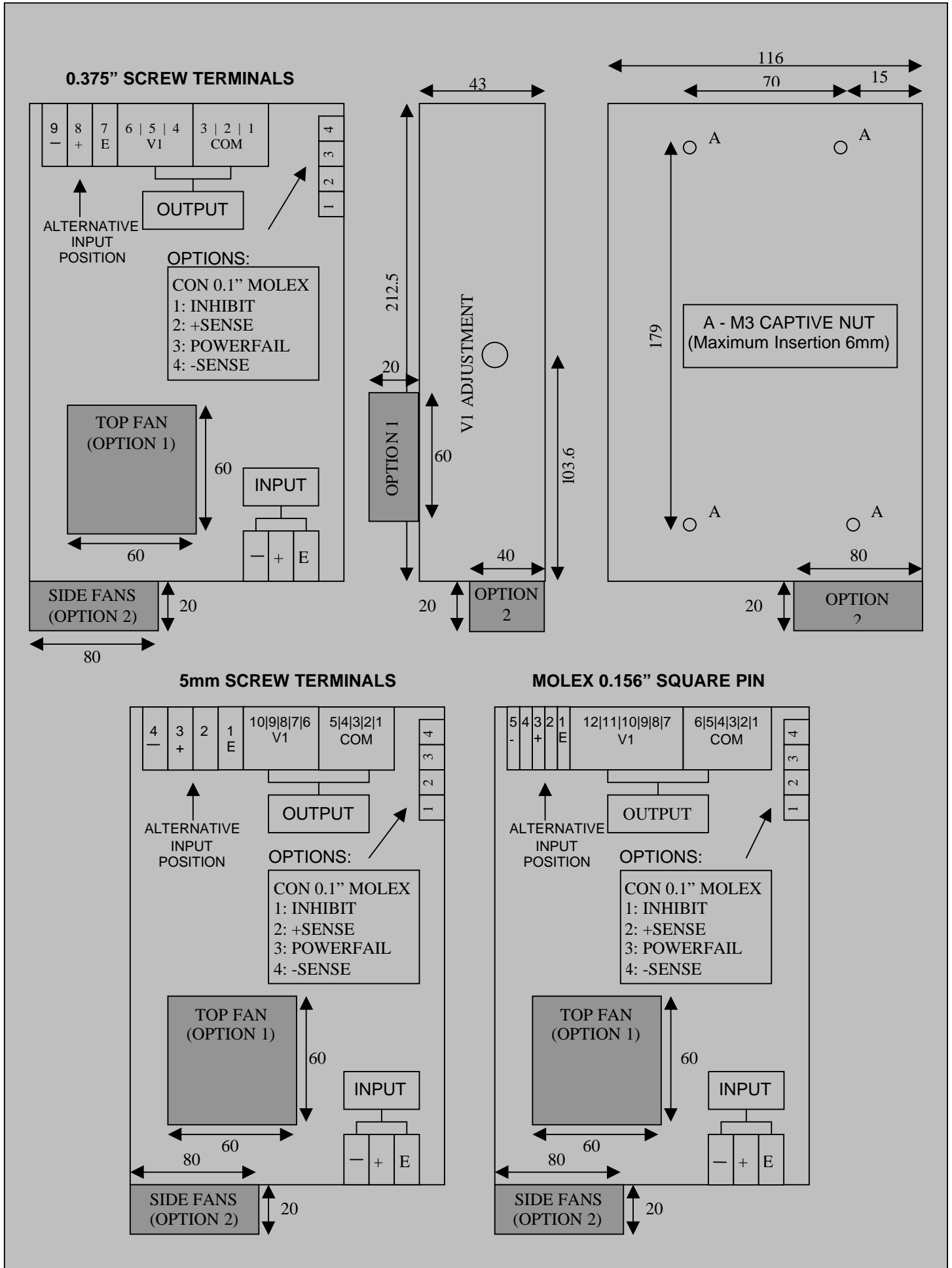
Units designed to meet: EN60950, UL60950,  
CSA 22.2 No. 950 & 234, EN41003

Emissions designed to meet: EN55022-B  
(conducted) EN55022-A (radiated)

Immunity designed to meet: EN61000-4-2 (ESD)  
(IEC801-2) EN61000-4-3 (radiated) (IEC801-3)  
pending EN61000-4-4 (fast transients)  
(IEC801-4) IEC801-5 (surge)

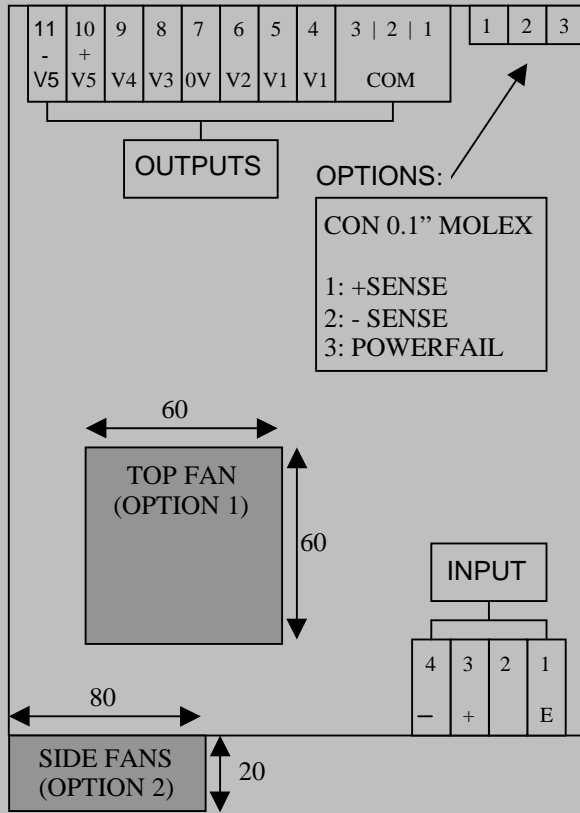
# DCFL250 Series Single Output

## Mechanical Details and Connections



# DCFL250 Series Multiple Output Mechanical Details and Connections

## 5mm SCREW TERMINALS



## MOLEX 0.156" SQUARE PIN

