

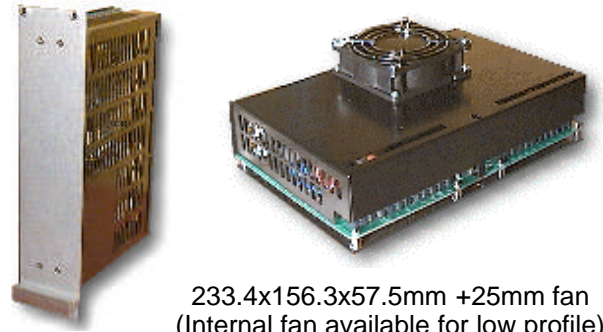
DCFS300 SERIES

300 Watt DC-DC Converter



Features:

- Hot swap capability
- Input voltages from 24Vdc to 400Vdc
- Fully Isolated Input to output
- Up to five outputs available
- Front panel for 19" rack applications
- Eurocard or chassis mount
- Reverse polarity protected
- Output voltages up to 600Vdc



233.4x156.3x57.5mm +25mm fan
(Internal fan available for low profile)

Description:

The DCFS300 series offers 300W of power within an industrial standard. Available with either DIN connectors or screw terminal as required. Front panel options are available to specification. Outputs from 1 to 5. Optional features include current share for parallel use, ORing diodes for N+1, inhibit / enable control and powerfail / output OK signal. Input voltages from 24 to 400Vdc. Output voltages to 600Vdc. Internal fan also available.

Specification:

Input

Input range : Contact sales
Inrush current : Meets relevant sections of 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 / 60A Current
Voltage adjustment : +/- 5% (V1)
Initial setting : 0.5%(V1);1.5%(V2 - V5)
Load regulation : <1% single o/p and V1;(4%V2-V5) 20% min load
Line regulation : <0.5%
Cross regulation : 1% (V2-5) for V1 10% load change
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 output voltage
Over current protection : All outputs
Output power : 300 Watts fan cooled
Temperature coefficient :0.02%/°C (V1)0.05%(V2-V5)
Shock and vibration : Meets MIL STD810E

Options

Internal fan for 12HP applications
H11 Din 41612 or 7.5mm screw terminal connection
Dc input powerfail signal
Output OK signal
Current share for parallel use
Inhibit / enable control
ORing diode for N+1
Remote sense
Front panel to specification

Output ratings

Up to five outputs available
Output voltages up to 600Vdc
Max 60A 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)

FS300 Series

Mechanical Details and Connections

TOP VIEW

CONNECTOR OPTIONS:
 7.5mm SCREW TERMINALS
 OR
 7.5mm RIGHT ANGLE SCREW
 TERMINALS

- | | |
|----|-----|
| 11 | V2 |
| 10 | V3 |
| 9 | V4 |
| 8 | |
| 7 | 0V |
| 6 | |
| 5 | |
| 4 | V1 |
| 3 | |
| 2 | +S |
| 1 | INH |

A : M3 CAPTIVE NUT
 Maximum Insertion 6mm

Alternative Output
 Configurations Available –
 contact sales for H15

COMMON

I SHARE

INPUT

- | | |
|----|----|
| 11 | PF |
| 10 | PF |
| 9 | B |
| 8 | A |
| 7 | E |
| 6 | |
| 5 | |
| 4 | - |
| 3 | + |
| 2 | |
| 1 | |

SIDE VIEW

BOTTOM VIEW

