DC/DC Converters with Wide Input Range for Industrial Applications Standard Stock Models



F2: 200W; F1: 150W; F0: 100W

Features

Field-proven converter topology

Wide input range:20-60Vdc or 65-160Vdc

Custom inputs available upon request

• EMI: EN55022 Class B for most models

Designed to meet EN60950 safety

Double regulator overvoltage protection

Overload protection

DCW Series Key

DCW 100-12 FT

DCW 100-24 FT

DCW 100-48 FT

DCW 150-12 FT

DCW 150-24 FT

DCW 150-48 FT

DCW 200-12 FT

DCW 200-24 FT

DCW 200-48 FT

DCW 100-110/12 FT

DCW 100-110/24 FT

DCW 100-110/48 FT

DCW 150-110/12 FT

DCW 150-110/24 FT

DCW 150-110/48 FT

DCW 200-110/12FT

DCW 200-110/24FT

DCW 200-110/48FT

· Inrush current limiting

• Convection/conduction cooled - no fan

Single output. Custom outputs available

 Designed for heavy industrial and other harsh environment applications

DC - Input

20-60V

20-60V

20-60V

20-60V

20-60V

20-60V

20-60V

20-60V

20-60V

65-160V

65-160V

65-160V

65-160V

65-160V

65-160V

65-160\/

65-160V

65-160V

Output V/A

12V/8A

24V/4

48V/2

12V/12

24V/6

48V/3

12V/16A

24V/8A

48V/4A

12V/8

24V/4

48V/2

12V/12

24V/6

48V/3

12V/16A

24V/8A

48V/4A

Power

100W

100W

100W

150W

150W

150W

200W

200W

200W

100W

100W

100W

150W

150W

150W

200W

200W

200W

Input:

Input Voltages 20...60Vdc and 65...160Vdc

Input Protection Reverse polarity protection by crossbar diode on 20–60V input

and series diode on 65-160V input; inrush current limiting;

thermal fuse; varistor

Isolation Input to chassis/output: 1500Vdc;

Output to chassis: 500Vdc

EMI EN 55022 Class A as a minimum

Output:

Output Power 100W (DCW 100), 150W (DCW 150), 200W (DCW200)

Output Voltage 12V, 24V or 48Vdc are standard.

Other voltages available upon request

Line Regulation 0.5%

Load Regulation Maximum \pm 1% from no load to full load

Over-voltage Protection Double regulator loop

Over-load protection Rectangular current limiting with hiccup type short circuit

protection.

Output Ripple/Noise High frequency ripple is better than 30mVrms or

200mVpp (20 MHz BW).

Operating Temperature 0°C to +50°C f

. Range 0°C to +50°C for full specifications with convection/

conduction cooling. Extended temperature ranges available

Temperature Drift 0.03% per °C over operating temperature range

Efficiency Minimum 80% at full load

MTBF 150,000 hours at 45°C

Input/Output Connection Screw-type terminal block, 3/8" spacing

Mechanicals 100W

Enclosed F0 package: 3.4" x 6.1" x 1.9". Weight: 1.2 lbs;

PCB Size: 3" x 5". Component height: 1.5"

Mechanicals 150W Enclosed F1 package: 7.8" x 4.4" x 2.0". Weight 1.64 lb;

PCB Size: 100mm x 160mm; Component height: 1.5"

Mechanicals: 200W Enclosed F2 package:10" x 4.425" x 2.25". Weight 2.5 lb

PCB Size: 100mm x 220mm; Component height: 1.75"

Warranty Twelve months subject to application within good engineering

Enhancements to these general specifications and customizing can be accommodated upon request.

Designed to meet common approval requirements. Specifications subject to change.



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