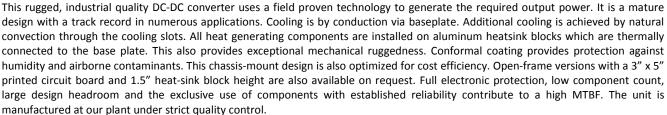
30W, Rugged, Industrial Quality DC-DC Converter with Wide Input Range DCW 30-F0 Series

- Rugged industrial quality
- Conduction/convection cooled
- Full electronic protection
- Field-proven design in a wide range of applications
- Wide input ranges



SPECIFICATIONS

Input Voltage

Two standard input ranges are available: 20 - 60Vdc or 65 - 160Vdc Consult factory for other input voltages and ranges

Input Protection

Inrush current limiting
Varistor
Reverse polarity protection
Internal safety fuse
Lower voltage than the specified
minimum input will not damage
the unit.

Isolation

1500VDC input to chassis, 1500VDC input to output, 500VDC output to chassis

Standards

Designed to meet EN 60950-1 and corresponding UL and CSA standards

FMI

EN55022 Class A with margins

Switching Frequency 47kHz ±2kHz

Terminal Block Pin Out 20V-60Vdc input

OUTPUT			INPUT		
-	+	NOT USED	άνD	1	+
1	2	3	4	5	6

65V-160Vdc input

OUTPUT			INPUT		
-	+	NOT USED	ÊND	+	-
1	2	3	4	5	6

Output Voltage

12V, 24V, 48V or 125Vdc Other voltages and higher power rating available on request

Redundancy Diode

Not installed

Line/Load Regulation

±1% combined from no load to full load

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple / Noise

Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHzBW)

Output Overload Protection

Current limiting with short circuit protection (hiccup)

Output Overvoltage Protection

Double regulator loop and transzorb clamp

Efficiency

Output voltage dependent. Typically 80% at full load

Operating Temperature Range

0°C to 50°C for full specification Wider temperature ranges available.

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction via base plate to customer heatsink or chassis and/or natural convection

Environmental Protection

Basic ruggedizing Heavy ruggedizing and conformal coating as option

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 – 95% non-condensing

MTBF

150,000 hours @ 45 °C Demonstrated MTBF is significantly higher

Indicators None

Control Input None

Alarm Output

None

Package/Dimensions (W x H x L)

F0: 94 x 48 x 160 mm (3.7" x 1.9" x 6.3") including terminal block and flanges. Mounting holes are clear

Weight

0.55kg (1.2lbs)

Connections

6-pole barrier-type terminal block or 90⁰ header pins with 0.156" spacing Open PCB versions are also available with header pins with 0.156 spacing, or terminal block PCB size: 3"x 5"

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

The specifications on this data sheet are generic and are subject to change. Enhancements to these specifications can be provided upon request.

OEM of industrial & railway quality AC/DC power supplies and battery chargers, DC/DC converters, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" & 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved facility



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