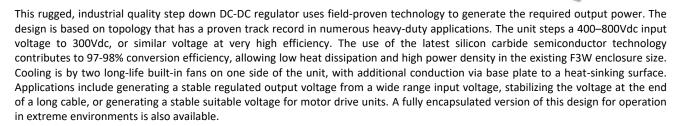
600Vdc High Input Voltage, 3kW, Industrial Quality Step-down DC-DC Regulator BUR 3K-F3W Series

- High input voltage
- Wide DC-input voltage range
- Rugged field-proven topology
- Cooling by internal fans
- Full electronic protection
- N+1 redundancy available
- No galvanic isolation



SPECIFICATIONS

Input Voltage

600Vdc nominal 400 - 800Vdc operating range Other input ranges on request

Input Protection

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

Isolation

3000VDC input/output to chassis Input and output returns are common.

Standards

Designed to meet EN62368-1 and corresponding standards

EMI

EN55032 Class A with margins

Switching Frequency 55kHz ±3kHz

Output Voltage

300Vdc/10A Output return is common with input return

Redundancy diode

Not installed Available as option

Line/Load Regulation

±1% combined from zero 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 300mVrms or 900pp (20MHz BW)

Output Overload Protection

Thermal shutdown with automatic reset in case of insufficient cooling Current Limit set to: 11A ± 0.8A

Output Overvoltage Protection

Transzorb clamp

Efficiency

97% at full load depending on input/output configuration

Operating Temperature

0 to +55°C cold-plate temperature for full specification

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Forced air by two high quality built-in fans

Environmental Protection

Ruggedizing Conformal coating Heavy ruggedizing available on request

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5-95% non-condensing

MTBF

130,000 hours @ 45°C (fans excluded) Demonstrated MTBF is significantly higher

Indicators

None

Control Input

None on standard version Available as option

Alarm Outputs

None. Available as option

Package/Dimensions (W x H x L)

F3W 160 x 70 x 290 mm 6.3" x 2.73" x 11.4" Includes baseplate, excludes terminals Mounting holes are clear

Weight

2.3 kg (5 lbs)

Connections

12-pole barrier type terminal block with 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change

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



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