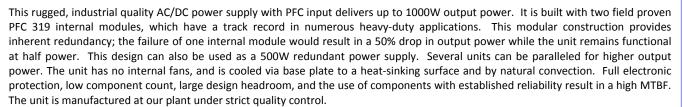
# 1000W, Rugged, Industrial Quality, Conduction/convection Cooled AC/DC Power Supply with PFC-input PFL 1K – XXF44T Series

- Electronic power factor correction (PFC)
- Rugged industrial quality
- Field-proven internal modules
- Conduction/convection cooling, no fans
- Single phase input
- Full electronic protection
- N+1 redundancy



#### **SPECIFICATIONS**

#### **Input Voltage**

95-264Vac, 47... 63Hz Input Current: 13A rms max. at 95V Power Factor is better than 0.97 at full load for the entire input range.

#### **Input Protection**

Meets EN61000-3-2

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

#### Isolation

2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis

#### Standards

Designed to meet EN 60950 and related standards

#### EMI

EN 55022 Class A with margins

# **Switching Frequency**

50 –150kHz (load dependent) on input section 55kHz ± 3kHz on output section

# Output Voltage/Current

24Vdc/40A 1000W continuous Output is floating; either terminal can be grounded

48V/20A or 125V/8A are also available

Other outputs also on request

#### **Redundancy Diode**

Installed on each internal module for separation and redundancy

#### **Line/Load Regulation**

+/- 1% combined from zero load to full load including built-in redundancy diode

#### **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 (20MHz BW)

#### **Overload Protection**

Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting) Current Limit: 43A ± 2A

# **Output Overvoltage Protection**

Double regulator loop OVP setting: 31V ± 2V

#### Efficiency

Output voltage dependent Typically 80% at full load

#### **Operating Temperature**

0°C to 50°C cold plate temperature for full specification Extended temperature range available

#### **Temperature Drift**

0.03% per °C over operating temperature range

#### Cooling

Conduction via base plate to customer chassis or heatsink and additional natural air convection through cooling slots

#### **Environmental Protection**

Basic ruggedizing Heavy ruggedizing and conformal coating as option

# Shock/Vibration IEC 61373 Cat 1 A&B

Humidity

# 5-95% non-condensing

140,000 hours @45 ° C per internal module Demonstrated MTBF is significantly higher.

#### ndicators

Green "Output ON" LED visible on each internal module through the cooling slots

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# **Control Input**

None

#### **Alarm Output**

None installed Available as option

# Package / Dimensions (WxHxL)

F44T: 267 x 64 x 353mm (10.5" x 2.5"x 13.9") Mounting holes are clear

# Weight

4.5kg (10 lbs)

#### Connections

<u>Input</u>: Terminal block with 13mm spacing

Output: Threaded studs

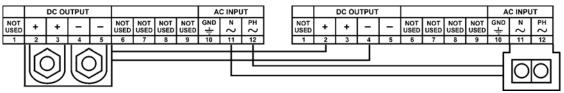
#### **RoHS Compliance**

Fully compliant

# Warranty

Two years subject to application within good engineering practice

#### **Terminal Block Pin-out**





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