# 3-phase, 400V or 480V Input, 500W Industrial Quality AC-DC Power Supply HTP 500-FXW

- Rugged industrial quality
- 3-Phase input
- Cooling by high quality internal fans
- Full electronic protection
- Field-proven design topology



This rugged, industrial quality AC-DC power supply with 3-phase input utilizes field-proven technology to generate the required output power. High quality built-in fans provide sufficient airflow for operation without de-rating within the specified temperature range. All heat generating components are installed on aluminum heatsink blocks which are thermally connected to the base plate. This also provides exceptional mechanical ruggedness. Conformal coating provides protection against humidity and airborne contaminants. Full electronic protection, low component count, large design headroom and the exclusive use of components with established reliability contribute to a high MTBF. The unit is manufactured at our plant under strict quality control.

# **SPECIFICATIONS**

## **Input Voltage**

Standard inputs are: 400Vac, 3-phase (360-440V) 480Vac, 3-phase (430-530V) 47-63Hz Other input voltages on request

#### Input Protection

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

## Isolation

3000Vdc input to chassis 4300Vdc input to output 5600Vdc type test 1000Vdc output to chassis

#### Standards

Designed to meet EN62368-1 and related standards

#### FМ

EN55032 Class A with margins

# Switching Frequency

55kHz ±3kHz

## **Output Voltage**

24V, 48V, or 125Vdc. Other voltages upon request Output is floating; either terminal can be grounded

## **Redundancy Diode**

Not installed Available on request

#### 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 0.2% rms or 1% peakto-peak of the output voltage (20MHz BW)

## **Output Overload Protection**

Rectangular current limiting with short-circuit protection Thermal shutdown in case of insufficient cooling (self-resetting)

# **Output Overvoltage Protection**

Second regulator loop completely stable and independent of the main regulator loop

# **Efficiency**

Min 80% at full load depending on input/output configuration

## **Operating Temperature Range**

0°C to 50°C for full specification Wider range available as option

#### **Temperature Drift**

0.03% per °C over operating temperature range

#### Cooling

By high quality built-in fans and by conduction via baseplate

# **Environmental Protection**

Basic ruggedizing Conformal coating

## 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

Output ON LED visible through the cooling slots

#### **Control Input**

None on standard version Available as option

#### **Alarm Outputs**

Not installed Available as option

# Package/Dimensions (W x H x D)

FXW: 185.4 x 69.3 x 351.1 mm 7.3" x 2.7" x 13.83" Includes baseplate, excludes terminals

# Weight

Approx. 2.9 kg (6.4 lb.)

#### Connections

12-pole barrier type terminal block with 3/8" spacing. Snap-on cover provided

# **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

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