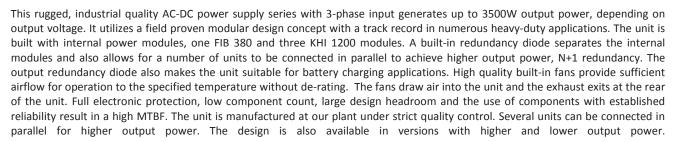
480Vac, 3-phase Input, 3.5kW Rugged, Industrial Quality Power Supply HVI 3K5-3U4

- Rugged industrial quality
- 3-Phase input
- Full electronic protection
- Cooling by built in fans
- N+1 redundancy available



SPECIFICATIONS

Input Voltage

480Vac ±15%, 3-phase 47-63Hz DC-input 500-800V also available 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

2250Vdc input to chassis 4300Vdc input to output 5600V type test 8mm spacing 2250Vdc output to chassis

Standards

Designed to meet EN 60950-1 and related standards

EMI

 ${\sf EN55022\ Class\ A\ with\ margins}$

Switching Frequency

55kHz ±3kHz

Output Voltage

Several standard output configurations available include 24V, 48V, or 125Vdc. Custom voltage upon request up to 600Vdc.

Output is floating; either terminal can be grounded Other outputs on request

Redundancy Diode

According to requirements

Line/Load Regulation

±1% combined from zero load to full load including 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 0.2% rms or 1% peakto-peak of the output voltage (20MHz BW)

Output Overload Protection

Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self-resetting)

Output Over-voltage Protection

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

Efficienc

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 two built-in high quality fans

Environmental Protection

Basic ruggedizing and conformal coating Heavy ruggedizing available as

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

option

5 - 95% non-condensing

MTBF

90,000 hours @ 45 °C (fans excluded) Demonstrated MTBF is significantly higher.

Indicator

Diagnostic Output ON LED on each internal module visible through the rear perforation.

Control Input

None on standard version Available as option

Alarm Outputs

Not installed Available as option

Package/Dimensions (H x W x D)

3U4: 132 x 244 x 407 mm (5.2" x 9.6" x 16") including terminal blocks and fans, excluding flanges Mounting holes are clear

Weight

8 kg (18 lb)

Connections

Input: Terminal block Output: Terminal block or threaded studs

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice Contamination related failures not covered.

