700W Rugged, AC/DC Industrial Power Supply with High Output Voltage
HVC 319F-FT Series

- Field-proven rugged design
- Industrial and other demanding environments
- Single regulated and adjustable output
- Fan cooled
- Full electronic protection
- N+1 redundancy available

This rugged, industrial quality power converter uses field proven topology. It is a mature design with an excellent track record in numerous applications. It is fan cooled by two built-in fans. An optional built-in redundancy diode allows parallel connection to achieve higher output power or N+1 redundancy. An optional Form C output fail alarm is also available. This chassis-mount design is optimized for low component count and high efficiency. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality controls. Customized versions are also available.

SPECIFICATIONS

Input Voltage
115/230Vac +/- 15%
47 - 63Hz
Voltage selection by internal jumper

Input Protection
Inrush current limiting
Varistor
Internal safety fuse
Lower voltage than the specified min. 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 corresponding UL and CSA standards

EMI
EN55022 Class A as a minimum

Switching Frequency
55 KHz +/-3KHz

Hold Up Time
Min. 5ms at full load for 5% drop of the output voltage

Output Voltage/Current
125VDC/5.6A or 250VDC/2.8A are standard
Consult factory for other voltages

Redundancy Diode
None.
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
Less than 1% peak to peak or 0.2%rms 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 main regulator loop

Efficiency
Output voltage dependent .
Typically 85% at full load

Operating Temperature Range
0 to+50°C for full specification,
Extended temp. range available

Temperature Drift
0.03% per °C over operating tempera range

Cooling
By two built-in fans

Environmental Protection
Basic ruggedizing
Full ruggedizing and conformal coating as option

MTBF
160,000 hours @ 45 °C
Fans excluded
Demonstrated MTBF is significantly higher

Indicators
None

Control Input
None

Alarm Output
None on standard version
Optional Form C alarm available

Package/Dimensions (W x H x L)
FF4: 155 x 62 x 356 mm
(6.1" x 2.43"x 14") including terminal block, flanges and fans
Mounting holes are clear

Weight
2.5 Kg (5.5 lb)

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

RoHS Compliance
Fully compliant

Warranty
Two years subject to application within good engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request.

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard. Absopulse is a BABT-approved Facility.

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