



FEATURES

- **AC Input: 220 VAC Nominal**
(180-264 VAC Input Range)
- **DC Output: 350 VDC Nominal**
- **High Efficiency: >90% Power Conversion Efficiency**
- **Liquid Cooled: Blind mate water feed and return connections**
- **Hot Plug: All electrical and cooling connections hot swap**
- **N+1 Compatible: Output Isolation Diode Included**
- **High Reliability: 100% HASS Tested**
- **Compact Size: Compact package: 12" x 2.8" x 16"**

OVERVIEW

Designed for use in Industrial Processing and Communications Power Systems, this power converter provides high operating efficiency along with excellent reliability and compact size. Features include input power factor correction, automatic load sharing, and full hot-swap N+1 operation. Each module is equipped with alarm outputs compatible with representative applications. Designed in compliance with NAVSO P-3641A, and with full Highly Accelerated Stress Screening (HASS) on all units, the converter provides the reliability required by enterprise critical applications.

SPECIFICATIONS:

AC INPUT

Input Voltage: 180-264 Volts AC, 47-63Hz, Single Phase

Input Current: 26 Amps RMS maximum at low line

Power Factor: 0.98

Harmonic Distortion: Less than 8% total harmonic distortion at full load and less than 5% for each harmonic

Peak Inrush Current: Less than 95A peak

Efficiency: 90% typical

DC OUTPUT

Output Voltage: 350VDC, nominal

Output Current: 20 Amps

Output Power: 7,000 Watts

Line Regulation: Less than 0.25%

Load Regulation: 0.2% from 10% to full load

Parallel Operation: May be paralleled with other like units for increased output power.

PROTECTION FEATURES

Output Over-voltage: Output protected with over-voltage shutdown circuitry

Output over-current: Automatic electronic current limit circuitry

Over-temperature: Internal thermostat shuts down unit if heatsink temperatures exceed safe limits.

Input Over-current: 50A fuse on both power lines

ALARMS AND CONTROL

AC Input Good: Green colored front panel LED

DC Output Good: Green colored front panel LED

Temperature Fault: Green colored front panel LED

AC On/Off: Requires external AC power interruption device (Note that module connector employs a "last make, first make" pin that disables module operation during hot swap.)

Module Reset: Front panel momentary push button switch that will reset unit to operational state subsequent to an over-voltage shutdown event.

ENVIRONMENTAL CONDITIONS

Cooling: Liquid cooled – coolant temperature range from 0oC to 35oC

Storage Temperature: -10 to +85oC

Humidity: 0 to 95% non-condensing, operating and storage

MECHANICAL

Converter Size: 12" x 2.8" x 16" (H x W x D)

Input/Output Connector: Blind mate Connector

Coolant Flow Rate: 1g/minute (water), 1.5g/minute (ethyl glycol)

AGENCY COMPLIANCE

EMI: Radiated and conducted emissions meet FCC Part 15, Subpart A and VDE0871, Class A

SAFETY: UL 60950

OUTLINE

