

# 3,800 W Technical Specifications

## AC INPUT

**Voltage:** 176—275VAC Over-voltage tested to 325Vac

**Frequency:** 47-63Hz

**Peak Inrush Current:** <50A

**Power Factor:** 0.99 typical

**Efficiency:** ~93% with 230VAC source, 50 to 100% load

**Hold-Up Time:** 10mS min.

**Input Overcurrent:** (internal) 25 A Fuse

## DC OUTPUT

**Voltage:** -48V, -54.5V. Custom outputs available, consult Factory

**Power:** 3,800W, -20 to +55°C, 176-275Vac

2,700W, -20 to +75°C, 176-275Vac

1,900W, -20 to +55°C, 90-275Vac

810W, -20 to +75°C, 90-275Vac

**Auxiliary output:** 12V/ 0.1A

**Accuracy:** ± 50mV

**Ripple & Noise:** 1% V P-P Measured with 20Mhz Bandwidth

**Line Regulation:** Less than ±0.25%

**Load Regulation:** ±1.0% from no load to full load (droop load share)

**Parallel Use:** May be paralleled with other like units for increased system output, redundant diode included

**Current Sharing:** Slope program current share, (droop)

**Temperature Coefficient:** < ±0.02% per°C

**Acoustic Noise** < 63dBA at nominal input and full load

## ELECTRONIC ALARMS (Basic Set, others available)

**AC OK:** low when AC input is in range

**Output OK:** low if the output voltage is within 10% of the actual voltage set point (low=<.6V@1mA) (high=open collector (I<50µA))

**CAN Bus:** available option

## VISUAL FAULT INDICATORS

**Output OK:** A front panel Green "Output OK" LED will be lit if the unit's output is within the acceptable range.

## ELECTRONIC CONTROL INPUTS

**Remote Inhibit:** Application of a TTL input signal will cause the supply to shut down and an output OK fault alarm will be issued. (TTL High = Inhibit)

**Remote Program:** Provides +9%, -27% of set point voltage with 0 to 5V control signal

## TEMPERATURE

**Normal Operation:** -20 to +75°C

**High Temperature Operation:** See Notes in "DC Output" Section

**Low Temperature Turn On:** -40°C Minimum

**Storage / Transportation:** -40°C to +85°C

**Humidity Operating:** 5% to 95% RH non-condensing

**Storage:** 0% to 99% RH non-condensing

**Fan Speed control:** unit features a Variable Speed Fan circuit that adjusts the fan speed based on ambient air temperature and load.

## PHYSICAL DIMENSIONS

Packaging (both available in 1U and 2U)

**Dimensions:** H88x W122 x D375mm (3.5 x 4.2 x 14.75")

**Weight:** 4kg (9lbs)

## AGENCY COMPLIANCE

**CE Marked:** Low Voltage Directive only

**Electrical safety:** IEC 60950-1, UL 60950-1

**EMI (conducted):** FCC Part 15, Sub-part J, class A and EN55022, class A

**EMI (radiated):** Stand alone module tested to EN55022 Class B.

**Harmonics:** EN 61000-3-2

EN 61000-6-1 (Immunity, light industry)

EN 61000-6-2 (Immunity, industry)

EN 61000-6-3 (Emissions, light industry)

EN 61000-6-4 (Emissions, industry)

RoHS compliant

## Notes:

Designed for use with Mercury shelf or custom Backplane

## Options:

Silicone RTV encapsulate

**Contact Factory for Options and full Product Specification**



## ORDERING INFORMATION

Part no.	Description
142151-N54D00	3800W, 54Vdc, Droop CS, standard alarms

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