

4,300 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

Primary Voltage -48V, -54.5V. Custom outputs available, consult Factory
Power: 4,300W, -20 to +55°C, 176-275Vac
3,500W, -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 < 67dBA 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

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:

Variable Speed Fan

Silicone RTV encapsulate

Contact Factory for Options and full Product Specification



ORDERING INFORMATION

Part no.	Description
143592-N54D00	4,300W, 54Vdc, Droop CS, standard alarms
143592-P27D00	4,300W, 27Vdc, Droop CS, standard alarms

www.tdipower.com

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