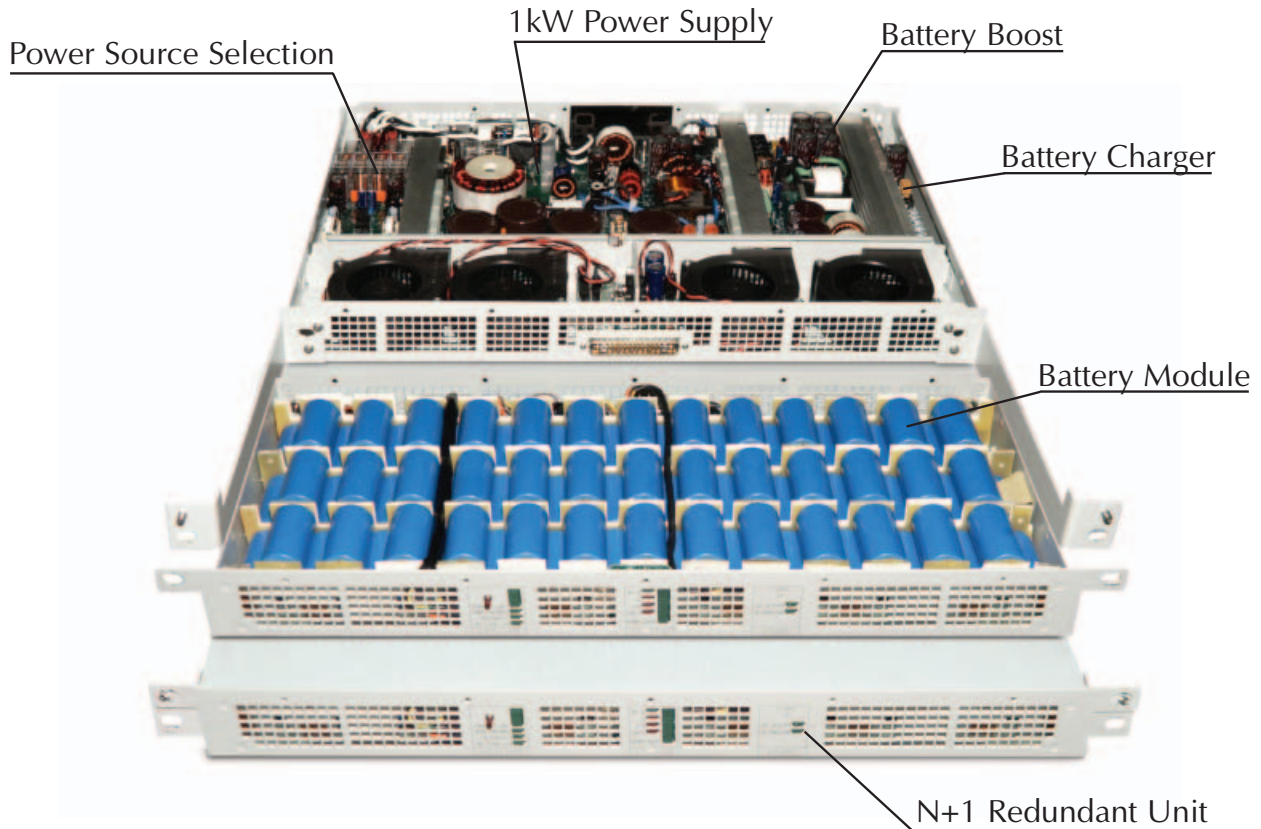


# Join The 1U Revolution

Uninterruptable Power



## Features

- Dual AC Inputs with automatic power source selection
- 8 Minute Battery Back-up if Both power Sources Fail
- Up to 1kw of regulated output power
- Hot Swappable, Parallelable & Redundant Power
- 85% Efficient
- 6.98 Power factor

The N+1<sup>2</sup> is the first in a new wave of power electronics that accepts input power from redundant AC inputs, an internal NiMH battery pack, or an external DC bus or battery bank. It provides up to 1,000 W output power in a 1U hot pluggable, 19-inch shelf.



[www.tdipower.com/li](http://www.tdipower.com/li)

**TDI - Long Island Research & Development Center**

111 Comac Street, Ronkonkoma, NY 11779 • Phone: 631.471.7492 • Fax: 631.471.7497

# Join The 1U Revolution

## Uninterruptable Power

### Specifications

#### INPUT

**Input Voltage:** 174-265Volts AC, 47-63Hz,  
Single Phase

**Input Current:** 7 Amperes RMS max. (low line,  
rated power)

**Peak Inrush Current:** 30Amps. Max.

**Power Factor:** 0.99Typical

**Efficiency:** 85% (dependant on output  
configuration) @ 220Volts AC Input

#### BATTERY SOURCE

**Voltage:** Internal NiMH cells for a nominal 48VDC  
(External Battery connection available)

**Run Time:** 8 minutes, full power, from internal cells

**Recharge Time:** 3 hrs

#### OUTPUT

Up to 1000 Watts

#### ALARMS AND CONTROLS

**AC Fail:** An optocoupler conductance signal  
indicates that the ac input(s) are supplying power to  
the output.

**DC Output Good:** An optocoupler conductance  
signal indicates that the output voltage is above the  
minimum rated output voltage.

**Over-temperature shutdown:** TTL active low

**Overvoltage shutdown:** TTL active low

**Overcurrent condition:** TTL active low

#### VISUAL FAULT INDICATORS

Over Voltage

Power Good

Over Temp

Current Limit

**Output Current:** A string of green LEDs will be lit  
indicating % of rated output current from the  
power source.

**Perferred Input**

**Backup Input**

**External Battery**

**Charging**

**Charging Complete**

**Charge Status:** A string of 5 green LEDs will be lit  
indicating % of battery charge level.

#### ELECTRONIC CONTROL INPUTS

**Remote Inhibit :**Application of input signal will  
cause the power to shut down and a DC output  
good alarm will be issued. TTL Low = inhibit.

**Remote Reset:** Application of input signal will reset  
OV circuitry. TTL high

#### ENVIRONMENTAL

**Operating Temperature:** -10 to 50C

**Humidity:** 0% -95% non-condensing

**Cooling:** Internal fans

**MTBF:** 250,000 hours

#### MECHANICAL

**Dimensions:** Standard 1U, 19 inch rack)

**Weight:** TBD

**Connections:** Throught Elcon connector

**Mounting:** Front plug-in into rack assembly

#### AGENCY COMPLIANCE

**EMI:** FCC Part 15, Subpart J, Class A

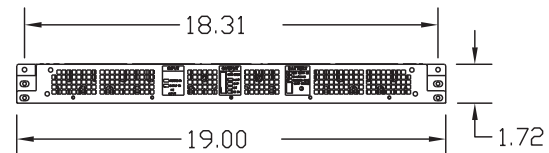
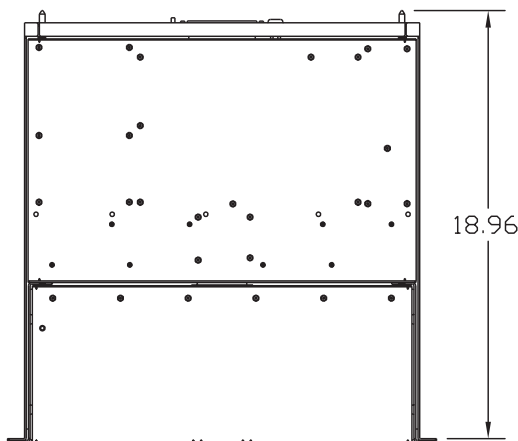
EN55022 Class A, Conducted

**Safety:** UL 1950, EN60950 and CSA 22.2 #

234. CE mark to low voltage directive

Line Harmonics comply with EN61000-3-2

### Outline



This data sheet is believed to be correct at time of publication and Transistor Devices, Inc. accepts no responsibility for consequences from printing errors or inaccuracies. Specifications are subject to change without notice.