

## N+1 redundant power solution with integrated output circuit breakers and Ethernet controller

- 8kW, 48V/54V DC Power
- Flexible AC input for single or 3 phase systems
- Four output circuit breakers
- Ethernet monitoring and control capabilities
- Compatible with wide range of Mercury rectifier modules



The 2U high Mercury shelf incorporates three rectifiers slots, four front panel circuit breakers in the negative line for load distribution protection along with TDI's eLink75 control module to provide remote Ethernet communications from the shelf. The shelf includes flexible AC and DC power connections via the rear panel. The AC input connections can be user configured to suit 3 Phase delta 208V, 3 phase star 400V, single 230V connection for all three rectifiers or individual 230V feeds for each rectifier.

DC loads connections suit four pairs of 4AWG connecting cables with the option to link the common positive output to ground. Front panel connections provide Ethernet and RS232 access to the eLink control module

## Outline Specifications

The system capability relates to the particular rectifier modules used. With 3 x MER38 rectifiers

### INPUT

**Module Voltage: 176-275V AC, 47-63Hz**

**Input Current ( maximum)**

Single phase, single feed - 52A

Single phase, 3 feeds - 17A per feed

3 phase delta (208V) - 30A per line

3 phase star (400V) - 17A per line

### OUTPUT

**Voltage: -54V**

**Current: 148A\***

**Power: 8,000W\***

\* this is assuming all three rectifiers are operational.

For a 2+1 redundant system, if one rectifier fails maximum

current and power capability will be reduced to

140A and 7.6kW

**UL60950-1 / EN60950-1**

**CE Mark- Low Voltage Directive**

See Rectifier datasheet / specification for more details

### eLink Controller

Via Ethernet or RS232

Provides alarms for:

DC low (46V)

DC very low (44V)

DC high (56.5V)

Configured to provide Minor and Major system alarms

Allows user to program output voltage

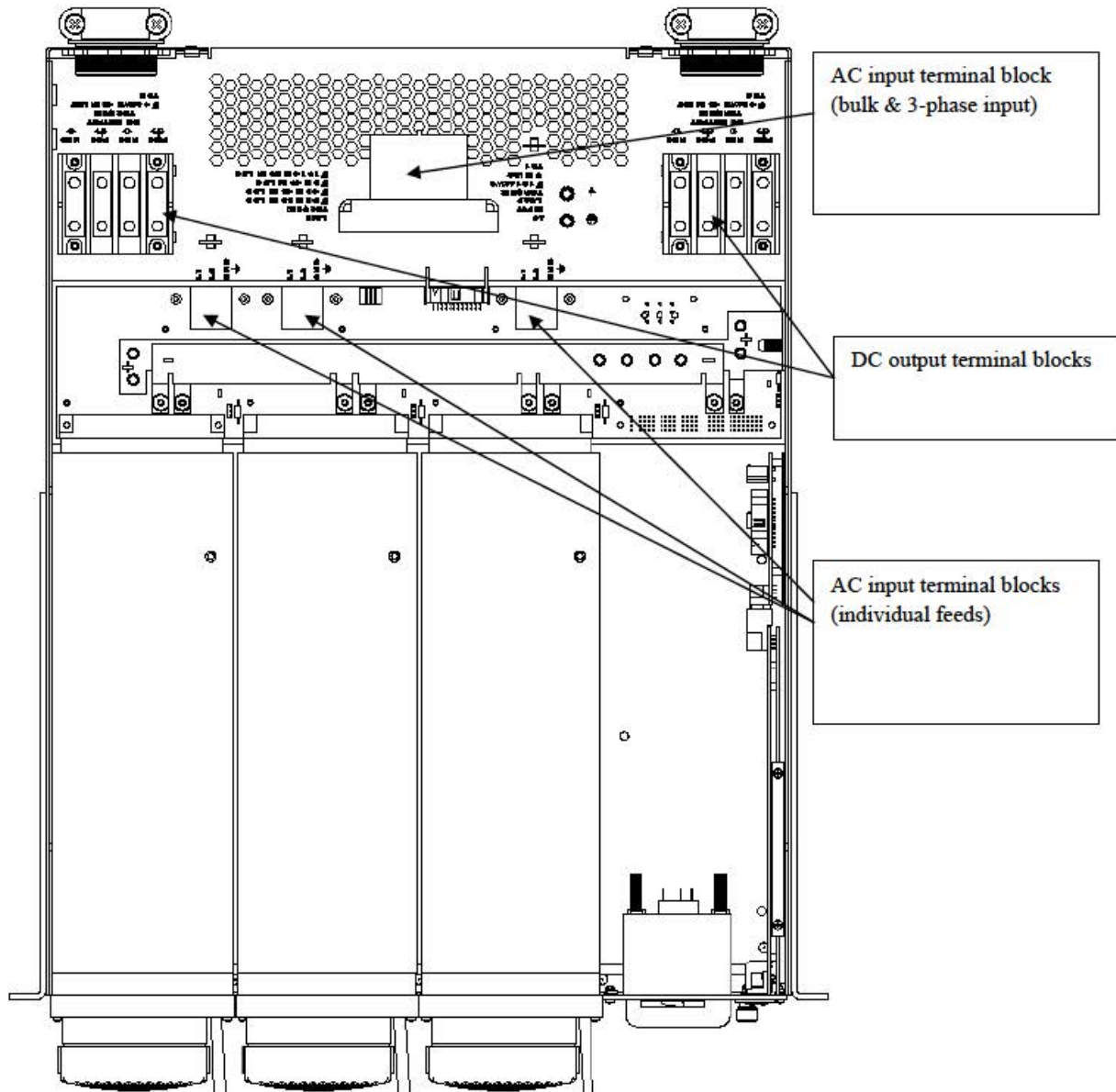


- 4 x Circuit Breakers Rated 85A per breaker
- 9 pin D (RS232) and RJ-45 for Ethernet

- 1.5" DC output cable clamps
- Flexible AC connections
- Knock outs for AC conduit
- + and - outputconnections x2



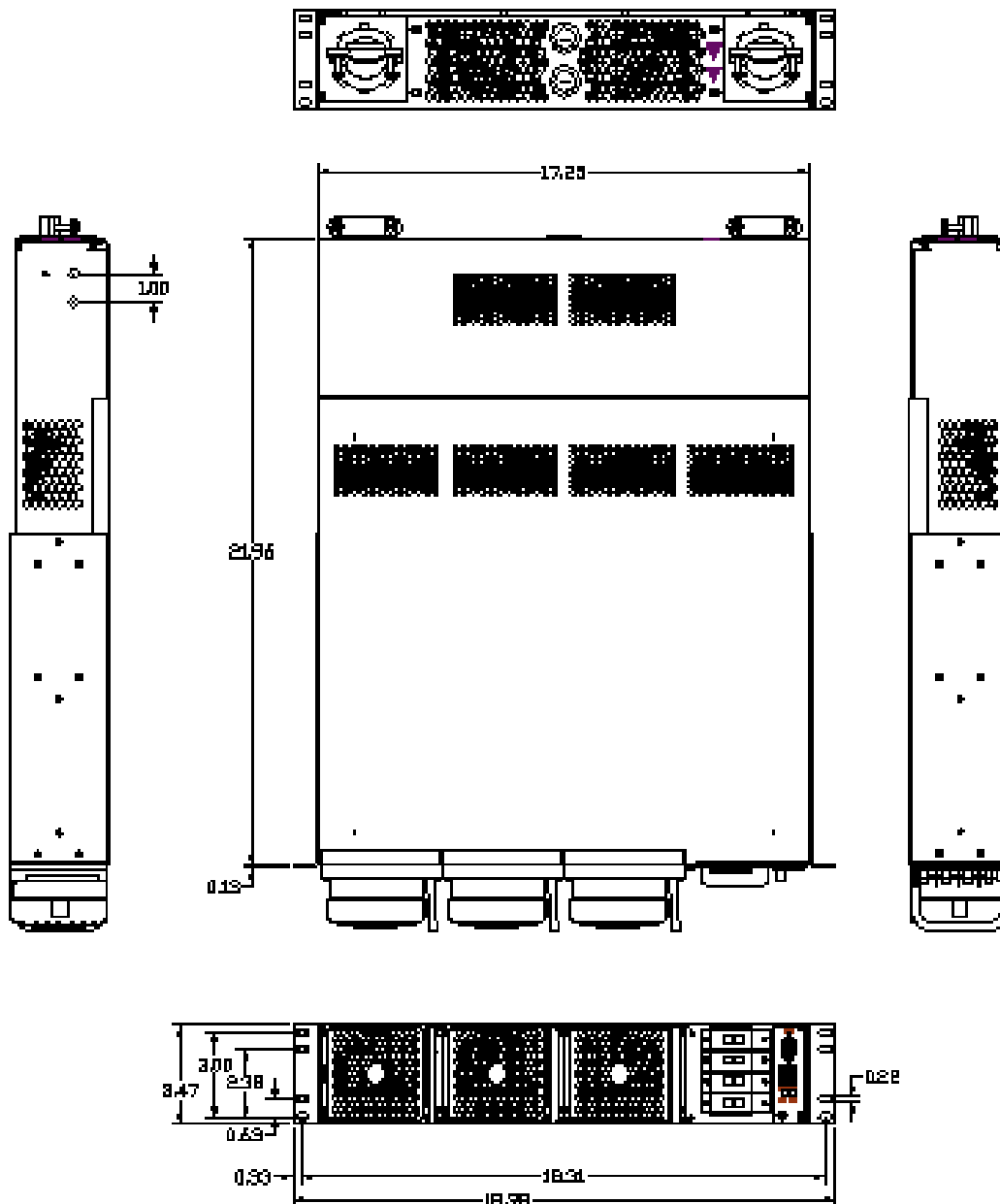
## View showing power connections



## Mechanical:

19" rack mounting  
2U high  
22" deep excluding cable glands etc

Rack mounting needs to ensure adequate air flow from the product. Rectifier's fans take air in at the front and exhaust out at



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