

**C.M. TECHNOLOGY**

Designed and Manufactured in Australia

[www.cmtechnology.com.au](http://www.cmtechnology.com.au)

## PRODUCT SHORTFORM

Rev. A

Tel: +61 (2) 9764 5655

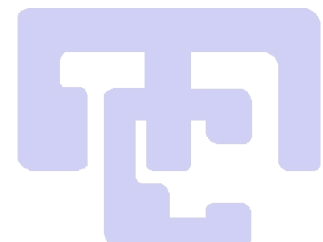
### 19" 48V Frontend Rectifier Rack



## DC4842

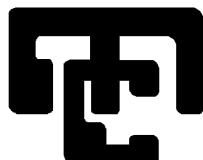
*The DC4842 is a state of the art AC/DC frontend rectifier with a compact 1RU form factor & 21.4W/inch<sup>3</sup> power density. The DC4842 can provide up to 6000W per rack, making it the ideal frontend rectifier rack for server rooms, I.T equipment, networking, telecommunications & a wide range of industrial applications using a distributed power architecture.*

- Built-in 5V/0.3A, 12V/0.8A auxiliary power
- Built-in Active PFC function, PF>0.98
- Short circuit, Overload, Overvoltage & Over temperature Protection
- Forced air cooling by built-in DC fan with variable fan speed
- Low profile 1RU high
- Built-in remote sensing capability
- Output voltage trimming functionality
- Hot-swap operation
- AC OK, DC OK, fan fail & Overtemperature alarm signal
- High Power density - 21.4W/inch<sup>3</sup>



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|   |  |
|---|--|
| <b>DC Voltage</b>                         | 48V  |
| <b>Rated Current</b>                      | 100A (Per Unit), 300A (Max - Full Rack)  |
| <b>Output Current Range</b>               | 0- 42A   |
| <b>Rated Power</b>                        | 2016W (Per Unit), 6048W (Max - Full Rack)  |
| <b>Max Ripple &amp; Noise</b>             | 300mV Peak-to-peak   |
| <b>Voltage Tolerance</b>                  | ± 1.0%   |
| <b>Line Regulation</b>                    | ± 0.5%   |
| <b>Load Regulation</b>                    | ± 0.5%   |
| <b>Setup, Rise Time</b>                   | 1500ms, 60ms/230VAC at full load   |
| <b>Holdup Time</b>                        | 16ms/230VAC at 75% load, 10ms/230VAC at full load  |
| <b>Input Frequency Range</b>              | 47 - 63Hz  |
| <b>Typical Efficiency</b>                 | 92%  |
| <b>Typical A.C Current</b>                | 10A / 230VAC   |
| <b>Typical Inrush Current</b>             | Cold Start 50A   |
| <b>Leakage Current</b>                    | <1.1mA / 230VAC (Per Unit), <3.5mA / 230VAC (Max - Full Rack)                              |
| <b>Overload Protection</b>                | 105 - 125 % Rated Output Power   |
| <b>Overvoltage Protection</b>             | 57.6 - 67.2 V  |
| <b>Over Temperature</b>                   | 80°C ± 5°C   |
| <b>Isolation Resistance</b>               | Input-Output, Input-Ground & Output-Ground: 100M Ohms / 500VDC / 25 / 70% Room Humidity    |
| <b>EMI Conduction &amp; Radiation</b>     | EN55022 (CISPR22)  |
| <b>Harmonic Current</b>                   | EN61000-3-2,-3   |
| <b>EMS Immunity</b>                       | EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2), Heavy industrial, criteria. A |
| <b>Dimensions</b>                         | 295 x 127 x 41 mm (Per Unit), 483.6 x 350.8 x 44 (L x W x H)                               |
| <b>Withstand Voltage</b>                  | Input-Output:3KVAC, Input-Ground:1.5KVAC, Output-Ground:0.7KVAC                            |
| <b>Safety Standards</b>                   | UL60950-1, TUV EN60950-1   |
| <b>MTBF</b>                               | 60.1Khrs min. MIL-HDBK-217F (25°C)   |
| <b>Vibration</b>                          | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axis                               |
| <b>Working Temperature</b>                | -25°C ~ +70°C  |
| <b>Working Humidity</b>                   | 20% ~ 90% Room Humidity non-condensing   |
| <b>Storage Temperature &amp; Humidity</b> | -40°C ~ +85°C , 10% ~ 95% Room Humidity  |
| <b>Auxiliary Power</b>                    | 5V / 0.3A  |

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