

Power

CAR1548TN 1500W Switched Mode Rectifier



CAR1548TN rectifier

- › Wide AC input range for worldwide installation requirements
- › Wide temperature operation for installation in harsh outdoor environments
- › Active load sharing on rectifier level for improved reliability
- › Compatible with 1,6 and 3U high to meet any space or power requirements

A true constant power with 91% typical efficiency (including redundancy diode) for this 1500W rectifier demonstrates the combination of the long experience of Alpha Technologies for distributed power architecture with the latest developments in technology to offer 4500W in a 2U high power shelf or 9000W in 3U space. It also supplies more current at low voltages, a real need when batteries are discharged.

The units are perfect solutions for both indoor and outdoor applications and offer a wide range of features to improve control of the system. Beyond the traditional voltage programming, AC and DC fault control, the unit is equipped with a smart derating of the power in regard to internal temperature. Signals include thermal shutdown, AC mains range detection (low or high) over-voltage, module missing - and offer great flexibility of system configuration.

The rectifiers are designed to work in parallel. Active single wire sharing secures a very good load share among units. Redundancy diode on the output allows for hot-swap fault tolerant insertion. Each unit is protected against input under- and over-voltage, output overvoltage, smart output power limitation and over temperature.

