

Power

CAR0548TN

500W Switched Mode Rectifier



CAR0548TN rectifier

- › Wide AC input range for worldwide installation requirements
- › No derating at low mains
- › Wide temperature operation for installation in harsh outdoor environments
- › Active load sharing on rectifier level for improved reliability
- › Hot swappable and fault tolerant

With 555W/L, (9.09W/cubic inch) up to 55°C / (131°F), this rectifier demonstrates superior power density at both 230VAC and 110VAC. The low 1U profile fits the shelf into a standard cabinet leaving a lot of space for the revenue-generating equipment.

The rectifiers and shelves offer a wide range of features to improve control of the system. Beyond the traditional AC and DC fault control, the unit is equipped with a smart derating of the power in regard to internal temperature. Signals include output current read-out, remote on/off, voltage programming, single wire active load sharing.

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 over-voltage, smart output power limitation and over-temperature. Combined with a MTBF of 300 000 hours per Bellcore RPP standard this secures excellent system availability.

The units work with a universal input. Active PFC secures low level of harmonics. Units are certified against all major worldwide requirements, UL, CSA and CE marking.

The rectifiers do not require any specific procedure or any special tools to be installed in the rack. A "DC good" LED on the front plate immediately signals the proper working of the unit, failures or degraded mode, resulting in very simple and quick maintenance.

