

Power

CAR1048TN

1000W Switched Mode Rectifier



CAR1048TN rectifier

- › High power density (1368W/l) yields more space for revenue generating equipment
- › 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 various power shelves from Alpha Technologies product line

With value above 1350W/l (22.4W/inch³), this rectifier demonstrates superior power density. The low 1U profile fits the shelf in a standard cabinet leaving a lot of space for the application. The rectifier is primarily designed for applications running in a 300mm (11.8") deep cabinet.

The rectifier and the related systems 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 readout, remote on/off, voltage programming and single wire active load sharing.

The rectifiers are designed to work in parallel. Redundancy diode on the output allows for hot-swap insertion. Each unit is protected against input under-voltage, output overvoltage, over-temperature and stands up to 300Vac without damage. It also features a smart output power limitation. Combined with the high conversion efficiency and MTBF of 300 000 hours per Bellcore RPP standard, this protection secures excellent system availability.

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

The rectifier can be monitored and controlled through analogue signals. It is also equipped with a CAN signal bus.

