ECOR 1048TN

1KW 48V HIGH PERFORMANCE RECTIFIER

- > 94,8% efficiency
- > Operating from -40°C to 80°C
- > Compatible with CAR0948TN and CAR1048TN
- > Wide input range

The ECOR1048TN 1000W feeds DC power and enables the infrastructure management of telecom access nodes with one the **lowest total cost of ownership** of the market. Backward compatible with the former generation of 850W and 1000W rectifiers (CAR0948TN and CAR1048TN), it brings further savings of multiple tens of Euros on the energy bills and maintenance. Combined with the CAPTIN series of systems, it creates a wide range of opportunities for highly reliable controls of costs in energy consumption,

load management, environmental operating conditions, inventory management, site maintenance and intervention.

In addition to a heat dissipation cut by half compared to the former generation, the ECOR1048TN 1000W operates up to 80°C with full rated power output up to 65°C, bringing further savings in the thermal management design of cabinets and cooling costs.

The rectifiers are designed to last far beyond the life cycles of many data and telecommunication equipment. Redundancy diode on the output allows for hot-swap fault-tolerant insertion. The unit is protected by a smart output power limitation and also protected against over-temperature, input undervoltage, input overvoltage (up to 280V without damage) and output overvoltage. A rigorous selection of the components and advanced thermal management design support the excellent MTBF of 500 000 hours calculated per Telcordia SR-332 RPP standard and an estimated life expectancy of more than 14 years.



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 Load regulation:
 ±0.5%

 Line regulation:
 ±0.2%

 Wide band noise:
 10mVrms

 Psophometric noise:
 5mVrms

Stand

Environmenta

Temperature:

Operation:-40 to 80°C (-40 to 176°F) Full Nominal Output Power:-33 to 65°C (-27.4 to 149°F)

Humidity:

Operating: 20 to 80% RH non-condensing Storage: 10 to 95% RH non-condensing Elevation: Up to 3000m (9842ft)
Cooling: Fan cooled (front to rear)

Standards

Safety: EN60950 - 1

CEBEC marking CEBEC CB IEC 60950-1

Environment: RoHS compliant

ETSI EN 300 019 1-1 (class 1.2), 1-2 (class 2.3) , 1-3 (class 3.3)

EMC*: EN 61000-6-1 EN 61000-6-3

ETSI EN 300386

CE marked

* See specifications sheet for more details



Feature

Indicators: LEDs off - no power available

Green LED permanent - OK Gteen LED blinking - Reduced

power

Orange LED - stand by (remote

off)

Red LED - Low DC voltage

(<40Vdc)

Blinking red LED - AC failure, thermal failure or short circuit Mains out of range (input fuse)

Output overvoltage Output overload Short circuit current Smart power derating Thermal shutdown

Hot swap

Related Components

Protections:

Solution:

ACE094: Low Profile Power System ACE102FALP: Low Profile Energy System

ACE104: 850W/1000W/48DC fan cooled solutions: 1U high basic shelf

CAPTIN 850BW: Site energy and management solution CAPTIN 850FA: Site energy and management solution

Compas: Compas Board