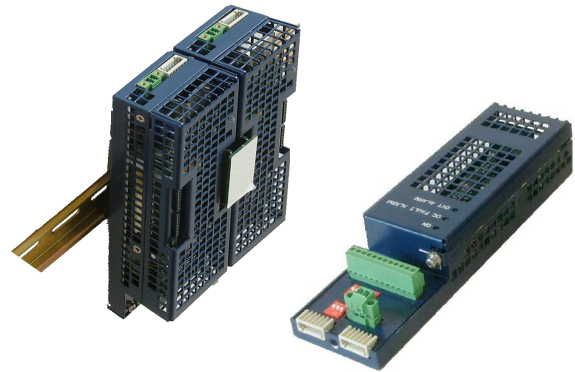


Power

REC006

Remote Feeding Low Power Down Converter



REC006 remote feeding down converter (left) and monitoring unit (right)

- › Stand alone down converter for remote feeding applications
- › Compliant with EN60950-21 RFT-C
- › Up to 60W output power
- › Parallel-mounting for full redundancy
- › Wall or Din rail mounting
- › Convection cooled, field replaceable module
- › Optional monitoring unit

This compact 60W remote energy solution provides high availability of power to remote sites in the local loop of the newest networks. The remote feeding solution operates on existing copper networks. It does not require any site safety approvals or input stage as it is not connected to the mains: it can be quickly and very cost effectively installed, enabling operators to promptly offer new services in remote areas. This solution takes advantage of the battery energy back-up power provided centrally. In this way high availability is provided at the remote site without increasing the number of remote battery locations and the exponential costs associated with their maintenance.

The module is designed to be mounted on a standard din rail or directly on a wall. Snap-in connectors allow quick connection to the load and to the feeding pairs. If the load increases during the life cycle of the application (additional subscribers connected), up to three modules can be paralleled in the field, supporting the right level of investment. For higher power loads, see also other remote or local feeding solutions from Alpha Technologies.

Redundancy can easily be achieved by mounting modules in parallel. Modules can easily be replaced in the field without interruption of power. The number of copper pair connections is designed to power each module independently for most distances. Optional accessory allows battery connection during maintenance or intervention on the network.

The remote feeding solution of Alpha Technologies is very safe. On the top of standard EN60950-1, it is also designed in combination with a central up converter compliant with the IEC/EN60950-21 safety standard. In addition, any circuit failure will shut down the source of power, eliminating any risk of electrical shock.

REC006D48FN Remote Feeding Down Converter

Part Number: REC006D48FN - Remote feeding DC/DC 60W Converter Module, 48V output, 8 input lines

Electrical

Input Voltage: 180 to 375Vdc

Input Current
(per module): 0.23A @ nominal power
0.4A maximum

Efficiency*: 88% typical
* including start-up protection system

Power output: 60W

Output voltage: -48.5 to -47.5Vdc

Output current: 1.25A @ -48Vdc

Mechanical

Dimensions:
mm: 44H x 55W x 200D
inches: 1.7H x 2.1W x 7.9D

Mounting: wall or Din rail

Weight: 0.500kg (1.1lb)

Connections

DC input: 2 x 8-poles terminal blocks (0.14 to 1.5 mm²)

DC output: 2-poles terminal block (0.14 to 1.5 mm²)

Alarms outputs: Female Cage Clamp Wago Multi Connection system (0.08 to 0.5 mm²)

Environmental

Temperature:
Standard: -25 to 70°C (-13 to 113°F)
Storage: -40 to 80°C (-40 to 176°F)

Humidity:
Operating: 5 to 95% RH non-condensing
Storage: 5 to 100% RH non-condensing

Elevation: Up to 2500m (8200ft)

Cooling: Convection cooled

Related Components

Modules:
REC006D48FN DC/DC 60W down converter (8 lines)
REM006L3MOD Monitoring unit for REC006D48FN converter

Accessories:
5304 500 00861 Connector kit for converter module
5304 500 00871 Connector kit for monitoring unit
5304 500 00671 Card for module paralleling
5304 500 00721 Input power connector (50pcs MOQ)
5304 500 00891 Alarm connector (100pcs MOQ)
5304 500 00901 DC output connector (50 pcs MOQ)

Standards

Safety: CE marked
EN60950 (designed to meet)
UL60950 (designed to meet)

Environment: RoHS compliant
IEC 60068-2-27

EMC: ETSI EN 300 386