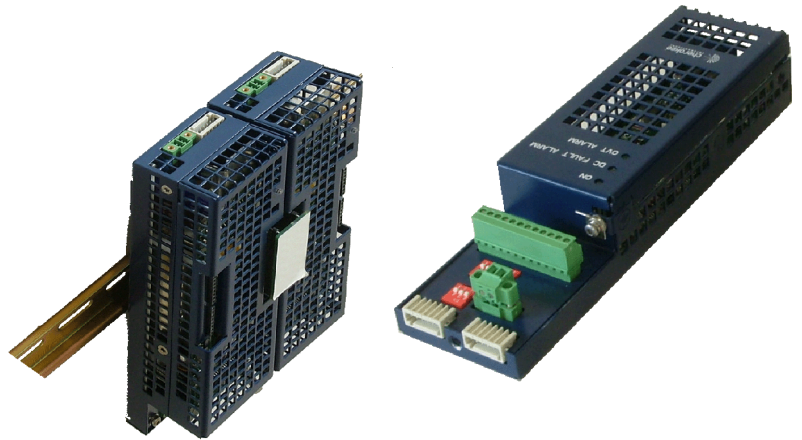


Product Features:

- Stand alone down converter for remote powering applications
- Complies with EN60950-21 RFT-C
- Up to 60W output power capability at 70°C
- Can be mounted in parallel to offer full n+1 redundant power
- Convection cooling
- Wall or Din rail mounting
- Field replaceable module
- Dual power level alarm when operating in parallel
- Optional monitoring for remote site



Reduced investment cost

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 saves time and money to operators and enables them to quickly offer new services in remote areas. 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. The module can be quickly and very cost effectively installed in the network as it does not require any connection to the utility network, nor any site safety approvals.

The energy system is designed to operate on temperature range from -25°C to 70°C in natural convection.

Progressive investment

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 Mitra E&I.

Cost effective reliability

The 60W remote energy solution from Mitra E&I is the perfect answer to provide high availability of power to remote sites in the local loop of the newest networks. The power supply unit connects to copper pairs networks powered at high voltage in the central office equipment. 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.

Redundancy at all levels

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.

Safety

The remote feeding solution of Mitra E&I 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

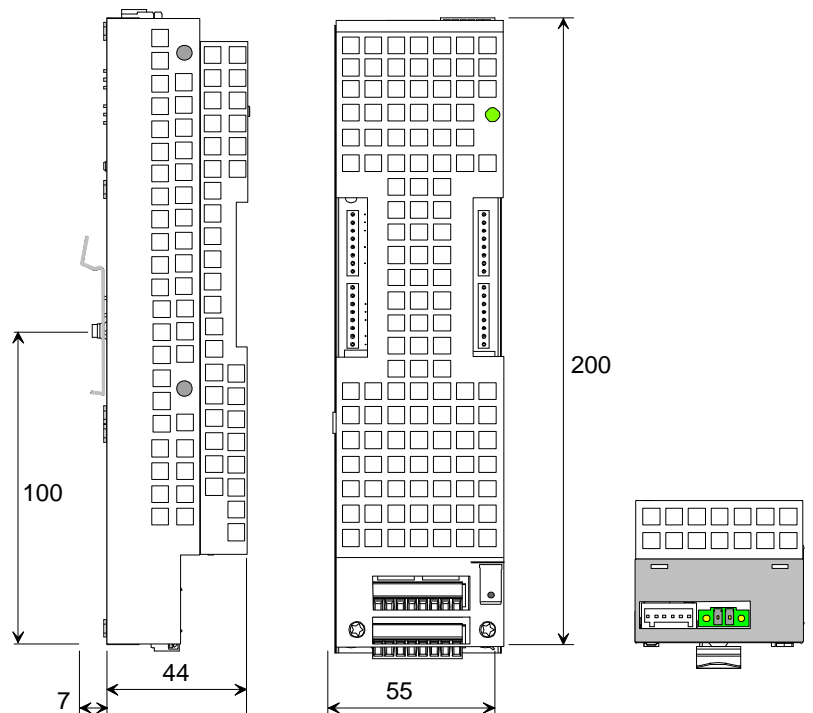


REC006D48FN

Remote feeding low power down converter

SPECIFICATIONS	
Safety standards	EN60950-21 RFT-C; EN60950-1 (TNV networks)
Output voltage	-54.0VDC \pm 0.2VDC
Over Voltage Protection	-59.5VDC \pm 0.5VDC
Output Power capability	60W per module at 70°C
Parallel operation	Up to three units in parallel
Load sharing	\pm 5%
Efficiency	88%
Input lines	Up to eight twisted pairs
Operating input voltage	180VDC to 375VDC
Input current consumption	0.23A nominal per module
Input current feed	58mA max. per twisted pair; 464mA max. per module
Protection	Overvoltage, short circuit, overload, excessive temperature
Embedded monitoring	Dual power level alarm to discriminate between single and multiple module failure, over temperature
Optional monitoring	In addition to embedded monitoring, 3 uncommitted input (Non-Urgent), 3 committed input (Urgent), output voltage
Visual indicators	One green led; flashing when temperature protected
Operating Temperature	-20°C to 70°C
Cooling	Convection cooled
EMC	Complies with ES300386, ITU K-44 and ITU K-45
Dimensions	200mm x 55mm x 52mm (HxWxD including Din rail bracket)
Access	Front access for all connectors

OUTLINE DIMENSIONS



Connectors

Description	Connector on unit	Mates with
DC input	PHOENIX CONTACT MCV 1.5/8 - G - 3.5	PHOENIX CONTACT MC 1.5/8 - ST - 3.5
DC outputs	PHOENIX CONTACT MCV 1.5/2 - GF - 3.81	PHOENIX CONTACT FRONT - MC 1.5/2 - STF - 3.81
Alarm	WAGO Multisystems MICRO (733-366)	WAGO Multisystems MICRO with cage Clamp (733-106)

The information contained within this specification is believed to be true and correct at the time of publication, however, Mitra Energy & Infrastructure accepts no responsibility for consequences arising from printing errors or inaccuracies.

The information and specifications contained herein are subject to change without notice.

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