Remote Power System RPS

The ideal system to supply power to remote stand-alone communication equipment over the BRUpowermil cable, which allows data communication over fiber optic and power supply at the same time.

Function:

The Remote Power System is a new, economical and durable solution for temporary power supply to remote transmitters or other communication equipment kilometers away. Thereby the remote mains voltage is 230/400 VAC in the capacity range of 1.6...2.0 kVA starting from an existing mains connection.

The solution is a time and cost saving alternative to conventional procedures of the current temporary supply by mobile generators, temporary power stations. The RPS can be installed rapidly and simply.

The RPS is produced in series for the Swiss Defense Forces and handed over to the troops for supplying mobile transmission locations at the same time with power and fiber optic data communications. Numerous further applications for civil and military use are in preparation for development. The units could be customized on specific applications.

Crucial Advantages in the Employment

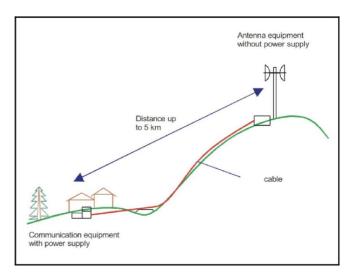
- High economy owing to smaller initial and operation costs
- Rapid availability of the current supply owing to simplest installation by personnel
- High mobility owing to small dimensions and limited weight (installation of the cable with e.g. back-pack frame or vehicle winding frame)
- Maintenance- and pollution free operation (no fuel supply and noise generation as with generators)
- Simple account of the current consumption (simple lead-sealable electric meters are available)
- High security against electrical accidents (allinsulated, EN-examined, CE certified)
- High reliability owing to durable, harsh-environmentsuited execution (high mechanical firmness, weatherproof, simple maintenance)
- High working reliability (constantly regulated supply voltage, permanent system monitoring device)

Operational Principle:

The one-phase supply voltage (230 VAC) is continuously regulated to the 1'000 VAC level and transmitted with very low loss of voltage, via the specially designed coaxial cable BRUpowermil between isolated primary and secondary transformers. Additional implemented four optical fibers enable simultaneous end-to-end signal transmissions, (e.g. Ethernet) for telephony, data transfer, video/audio, etc. via different standard interfaces.

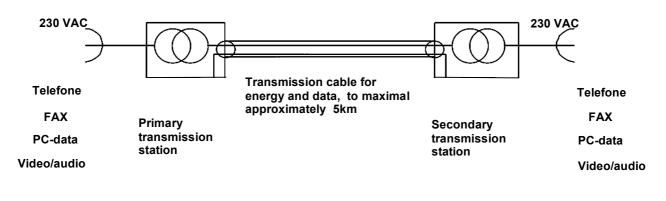


Primary and Secondary Power Station



Function Principle





Operation principle

Technical Data:

Power Supply:		Transmission Cable:	
Input voltage	230 VAC/50 Hz (± 10%,cos fi≥0.8	Cable type	Coaxial or fiber- optic hybrid cable
Transmission voltage Output	1000 VAC/50Hz 1.6 kVA (1-phase)		with double insulation
Voltage	Stabilized, same	Wires	2-wires
	as input voltage	Wire cross-section	1.6 mm ²
Compliance		Protective Measures:	
		Personal protection	electronic system
		Overload +cable breaks	
Dimensions:			monitoring
W/H/D Weight	325 / 270 / 490 mm approx. 32 kg		



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