Remote Power Supply DC (for AC or DC in/out)

The RPS is transporting power and data through the powermil cable. These are hybrid cables with copper conductors and optical fibers, to remote equipment over medium to long distances.

The RPS Power and Optical Transmission Unit RPS (Remote Power Supply) feeds remote equipment with signal and power through a single hybrid cable. Application scope includes remote operation and mains supply of transmitter stations and other communication equipment. The RPS minimizes the effort for installations and operation and offers a very low volume and low weight solution.

RPS-Master-Unit for near end and RPS-Slave-Unit for remote end are of the same size and type of case. Available as field case in protection bag or as 19" rack-mounting version.

Applications:

Typical RPS configuration: Ad-hoc connection between a mobile command unit ('supply side') and a remote operation unit ('remote side'), as sensors or actors (e.g. remote radar stations, UAV-base stations, ticketing systems, remote microwave, or weapon systems, stand-alone-systems)

Functionality

The RPS offers high data rate transmission and mains supply through a single hybrid cable. The hybrid cable comprises a high voltage power transmission cable and four single-mode optical fibers in a compact and lightweight construction. It terminates with a highly integrated, hybrid connector for simple mounting. This significantly reduces cabling complexity and installation time compared to traditional solutions where independent cables have to be installed for mains and data transmission. Furthermore, the RPS allows for replacement of remote power generators leading to improved reliability, reduced maintenance effort and no on site man power during operation, reduced emissions and thus improved target protection. Sophisticated provisions such as electronic transmission monitoring protect the equipment in cases of damage and guarantee safe and reliable operation. Four single-mode fiber connections provide high capacity data transmission channels, suited for setting up general purpose remote data networks, for feeding remote transmitter stations with signal and for remote operation of equipment.

Crucial advantages in the deployment

- High economically solution, due to smaller initial and operation costs
- Rapid availability of the current supply owing to simplest installation by personnel
- High mobility since its 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 no noise and heat emissions as with generators)
- High security against electrical accidents (all-insulated, CE certified)
- High reliability due to very durable and harsh-environment-suited design (high mechanical firmness, weather-proof, simple maintenance)
- High working reliability (constantly regulated supply voltage, permanent system monitoring device)

Operational Principle:

The supply voltage can be 24VDC, 48VDC or one phase 230 VAC. This voltage is transformed to the 1'500 VDC level and transmitted with low loss of voltage, via the specially designed hybrid cable, installed between isolated primary and secondary transformers. Two coaxial copper conductors are for power transmission and the implemented four optical fibers enable simultaneous end-to-end signal transmissions, e.g. fast Ethernet used for telephony, data transfer, video/audio, etc. via different standard interfaces.

Variants:

Power input	Power output		
230 VAC	230 VAC	24 VDC	48VDC
24 VDC	230 VAC	24 VDC	48VDC
48 VDC	230 VAC	24 VDC	48VDC

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Technical Specifications

Mechanical data		User Interface	
Size (LxHxD)/mm	500x300x400	Mains switch	On/Off
Weight per unit approx.	20kg		
Power supply		Status indication	LEDs for: • mains local
Input voltage	230VAC/50Hz ± 10% / 24VDC ± 16% / 48VDC ± 16%	**Protection**	
Output voltage	230VAC/50Hz ± 1% / 28VDC ± 1% / 56VDC ± 1%	Isolation to ground	3kV
Max. output power	0.4 kVA..25kVA	Power Transmission	Mains power transmission galvanically isolated and monitored with protective signal
Max. transmission length	1km..12km	Overload protection	Electronic protection circuit
Environment		Transport	
Operation temperature	-30+50° C	Shock absorbing carrying case	
Storage temperature	-40+70° C		
Relative humidity (closed interfaces)	95%		
Waterproof	IP67		
External I/O		**Options**	
RJF connectors (MIL RJ-45)	10/100/1000BaseT	• Harsh environment FO-connections with dark fiber or 1000BaseLX signal. • Hybrid cable; RPS to RPS • Customer specific variants are available	
Hybrid connector	1 x pair copper, 4 x single-mode FO (1310 or 1550nm; RPS to RPS)		
Mains power I/O:			
Power-In (Master-Unit only)	Binder plug, series 693		
Power-Out (Slave-Unit only)	Binder plug, series 693,		

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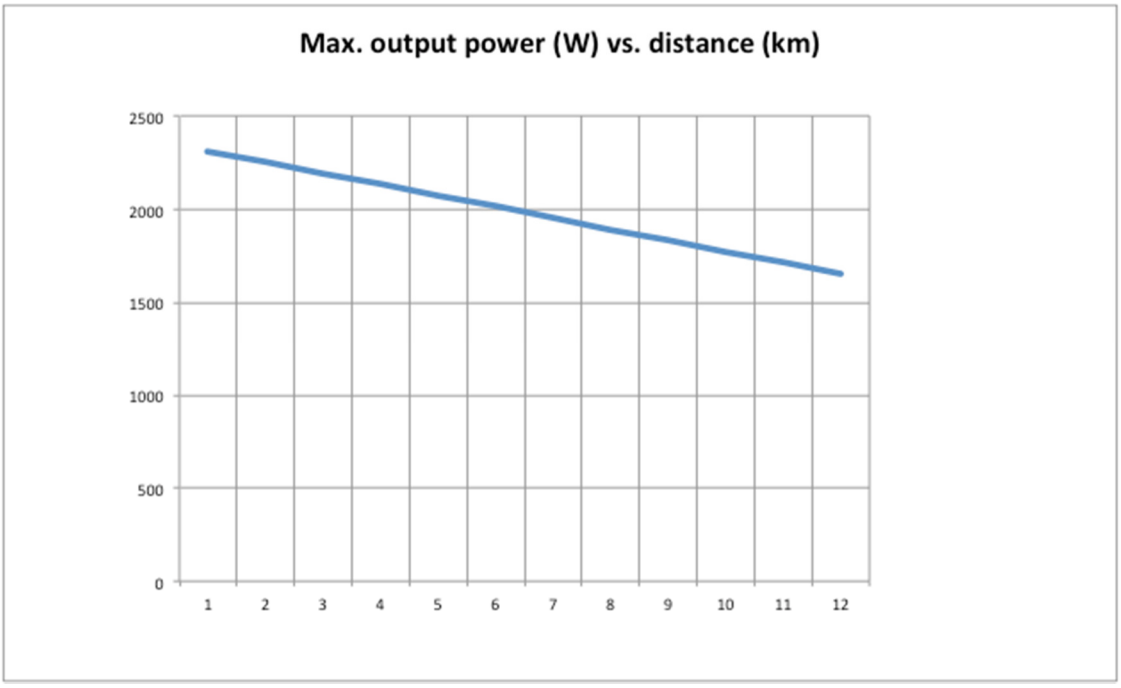
Diagram to see the capabilities of the system regarding power out and distance.

Diagramm for BRUpowermil cable: 1.6 mm^2 Cu



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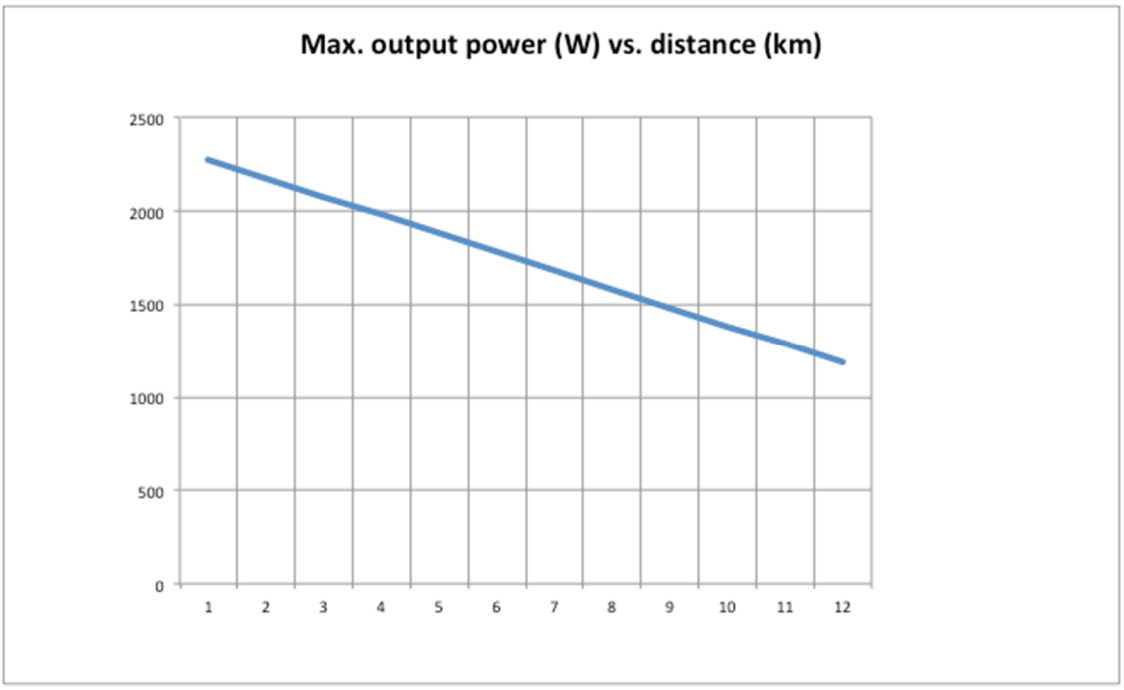

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Functionality

The RPS offers high data rate transmission and mains supply through a single hybrid cable. The hybrid cable comprises a high voltage power transmission cable and four single-mode optical fibers in a compact and lightweight construction. It terminates with a highly integrated, hybrid connector for simple mounting. This significantly reduces cabling complexity and installation time compared to traditional solutions where independent cables have to be installed for mains and data transmission. Furthermore, the RPS allows for replacement of remote power generators leading to improved reliability, reduced maintenance effort and no on site man power during operation, reduced emissions and thus improved target protection. Sophisticated provisions such as electronic transmission monitoring protect the equipment in cases of damage and guarantee safe and reliable operation. Four single-mode fiber connections provide high capacity data transmission channels, suited for setting up general purpose remote data networks, for feeding remote transmitter stations with signal and for remote operation of equipment.

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Operational Principle:

The supply voltage can be 24VDC, 48VDC or one phase 230 VAC. This voltage is transformed to the 1'500 VDC level and transmitted with low loss of voltage, via the specially designed hybrid cable, installed between isolated primary and secondary transformers. Two coaxial copper conductors are for power transmission and the implemented four optical fibers enable simultaneous end-to-end signal transmissions, e.g. fast Ethernet used for telephony, data transfer, video/audio, etc. via different standard interfaces.

Variants:

Power input	Power output		
230 VAC	230 VAC	24 VDC	48VDC
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Mechanical data		User Interface	
Size (LxHxD)/mm	500x300x400	Mains switch	On/Off
Weight per unit approx.	20kg		
Power supply		Status indication	LEDs for: • mains local
Input voltage	230VAC/50Hz ± 10% / 24VDC ± 16% / 48VDC ± 16%	**Protection**	
Output voltage	230VAC/50Hz ± 1% / 28VDC ± 1% / 56VDC ± 1%	Isolation to ground	3kV
Max. output power	0.4 kVA..25kVA	Power Transmission	Mains power transmission galvanically isolated and monitored with protective signal
Max. transmission length	1km..12km	Overload protection	Electronic protection circuit
Environment		Transport	
Operation temperature	-30+50° C	Shock absorbing carrying case	
Storage temperature	-40+70° C		
Relative humidity (closed interfaces)	95%		
Waterproof	IP67		
External I/O		**Options**	
RJF connectors (MIL RJ-45)	10/100/1000BaseT	• Harsh environment FO-connections with dark fiber or 1000BaseLX signal. • Hybrid cable; RPS to RPS • Customer specific variants are available	
Hybrid connector	1 x pair copper, 4 x single-mode FO (1310 or 1550nm; RPS to RPS)		
Mains power I/O:			
Power-In (Master-Unit only)	Binder plug, series 693		
Power-Out (Slave-Unit only)	Binder plug, series 693,		

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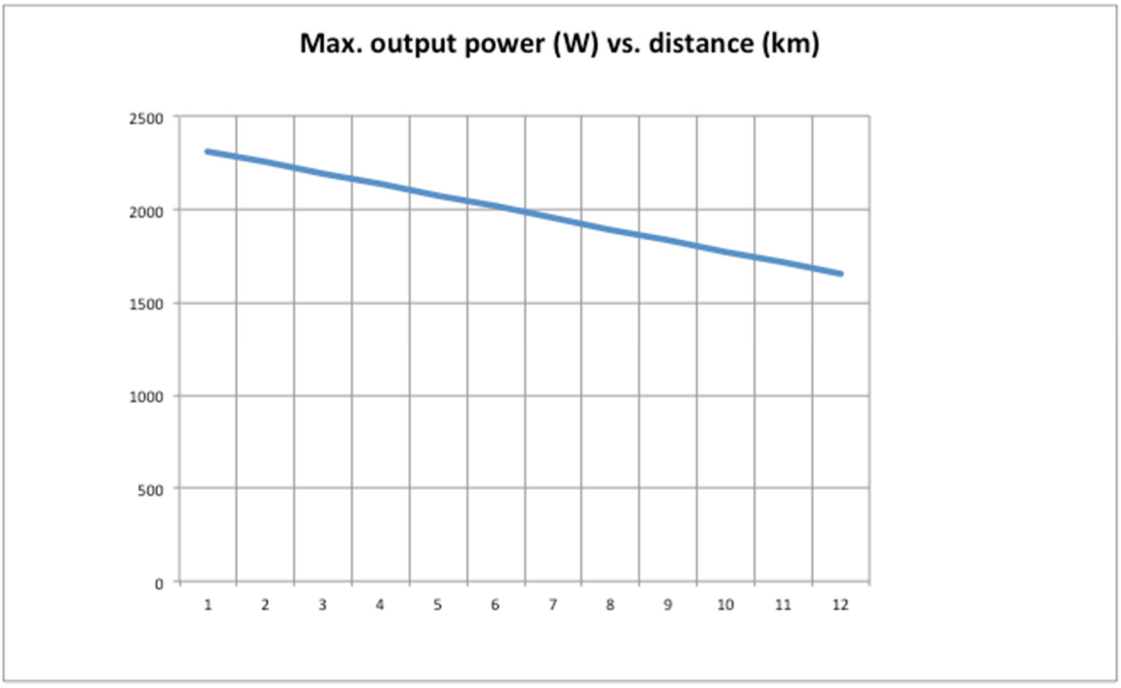

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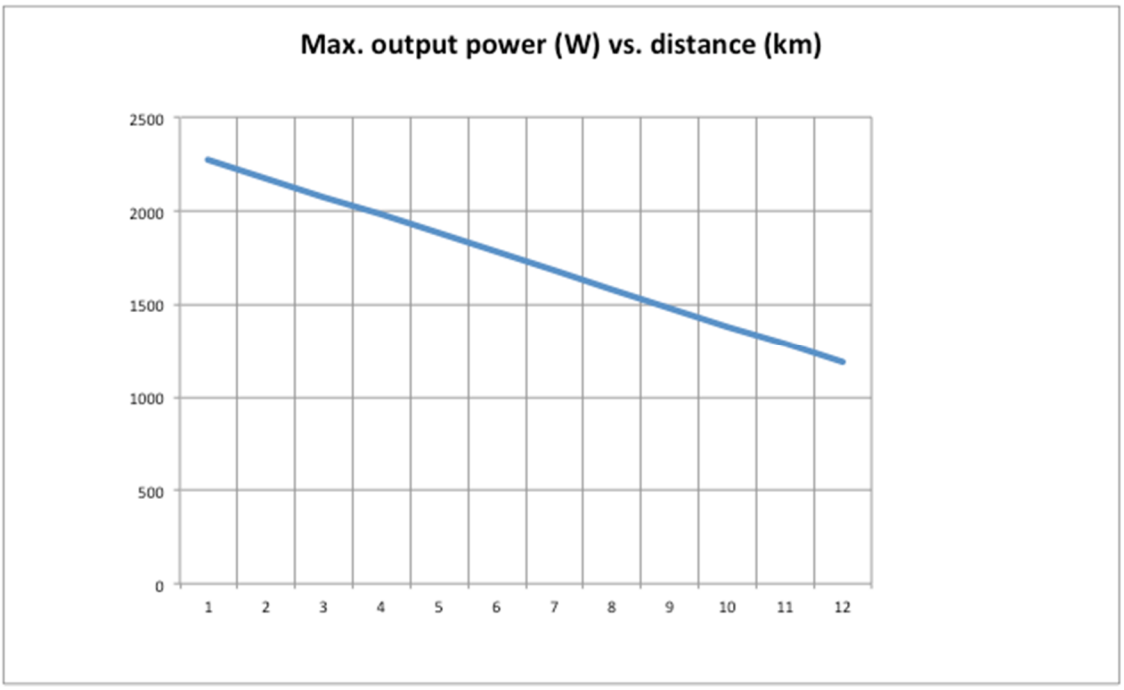

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- High working reliability (constantly regulated supply voltage, permanent system monitoring device)

Operational Principle:

The supply voltage can be 24VDC, 48VDC or one phase 230 VAC. This voltage is transformed to the 1'500 VDC level and transmitted with low loss of voltage, via the specially designed hybrid cable, installed between isolated primary and secondary transformers. Two coaxial copper conductors are for power transmission and the implemented four optical fibers enable simultaneous end-to-end signal transmissions, e.g. fast Ethernet used for telephony, data transfer, video/audio, etc. via different standard interfaces.

Variants:

Power input	Power output		
230 VAC	230 VAC	24 VDC	48VDC
24 VDC	230 VAC	24 VDC	48VDC
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Mechanical data		User Interface	
Size (LxHxD)/mm	500x300x400	Mains switch	On/Off
Weight per unit approx.	20kg		
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Max. output power	0.4 kVA..25kVA	Power Transmission	Mains power transmission galvanically isolated and monitored with protective signal
Max. transmission length	1km..12km	Overload protection	Electronic protection circuit
Environment		Transport	
Operation temperature	-30+50° C	Shock absorbing carrying case	
Storage temperature	-40+70° C		
Relative humidity (closed interfaces)	95%		
Waterproof	IP67		
External I/O		**Options**	
RJF connectors (MIL RJ-45)	10/100/1000BaseT	• Harsh environment FO-connections with dark fiber or 1000BaseLX signal. • Hybrid cable; RPS to RPS • Customer specific variants are available	
Hybrid connector	1 x pair copper, 4 x single-mode FO (1310 or 1550nm; RPS to RPS)		
Mains power I/O:			
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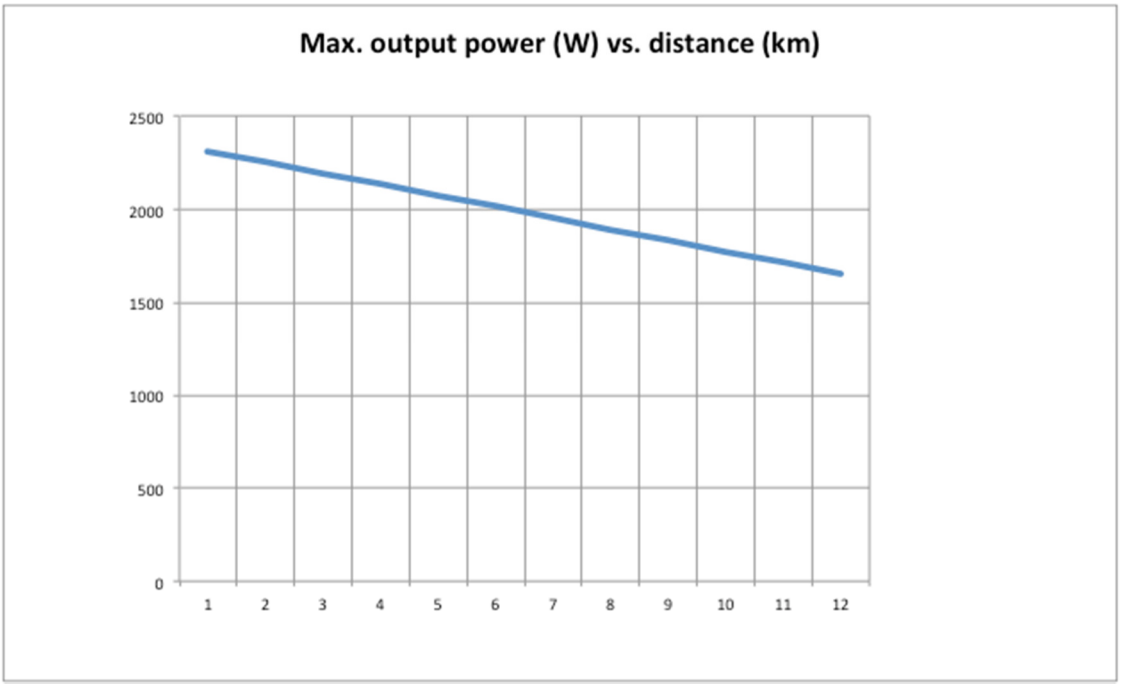

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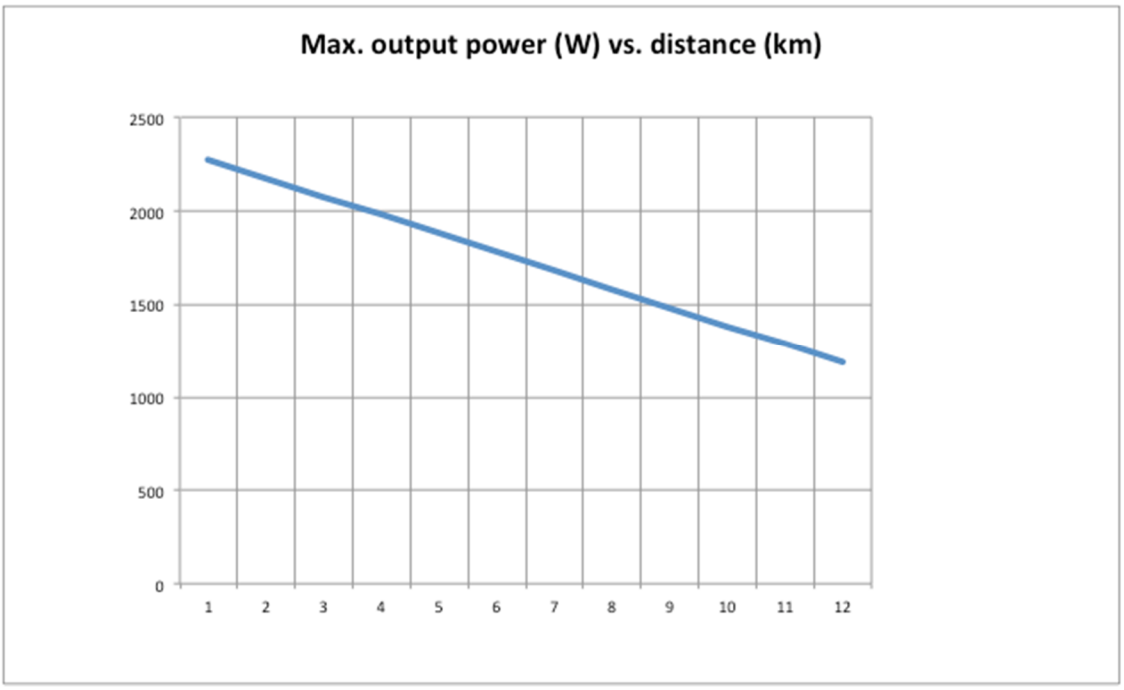

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Operational Principle:

The supply voltage can be 24VDC, 48VDC or one phase 230 VAC. This voltage is transformed to the 1'500 VDC level and transmitted with low loss of voltage, via the specially designed hybrid cable, installed between isolated primary and secondary transformers. Two coaxial copper conductors are for power transmission and the implemented four optical fibers enable simultaneous end-to-end signal transmissions, e.g. fast Ethernet used for telephony, data transfer, video/audio, etc. via different standard interfaces.

Variants:

Power input	Power output		
230 VAC	230 VAC	24 VDC	48VDC
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Weight per unit approx.	20kg		
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Max. output power	0.4 kVA..25kVA	Power Transmission	Mains power transmission galvanically isolated and monitored with protective signal
Max. transmission length	1km..12km	Overload protection	Electronic protection circuit
Environment		Transport	
Operation temperature	-30+50° C	Shock absorbing carrying case	
Storage temperature	-40+70° C		
Relative humidity (closed interfaces)	95%		
Waterproof	IP67		
External I/O		**Options**	
RJF connectors (MIL RJ-45)	10/100/1000BaseT	• Harsh environment FO-connections with dark fiber or 1000BaseLX signal. • Hybrid cable; RPS to RPS • Customer specific variants are available	
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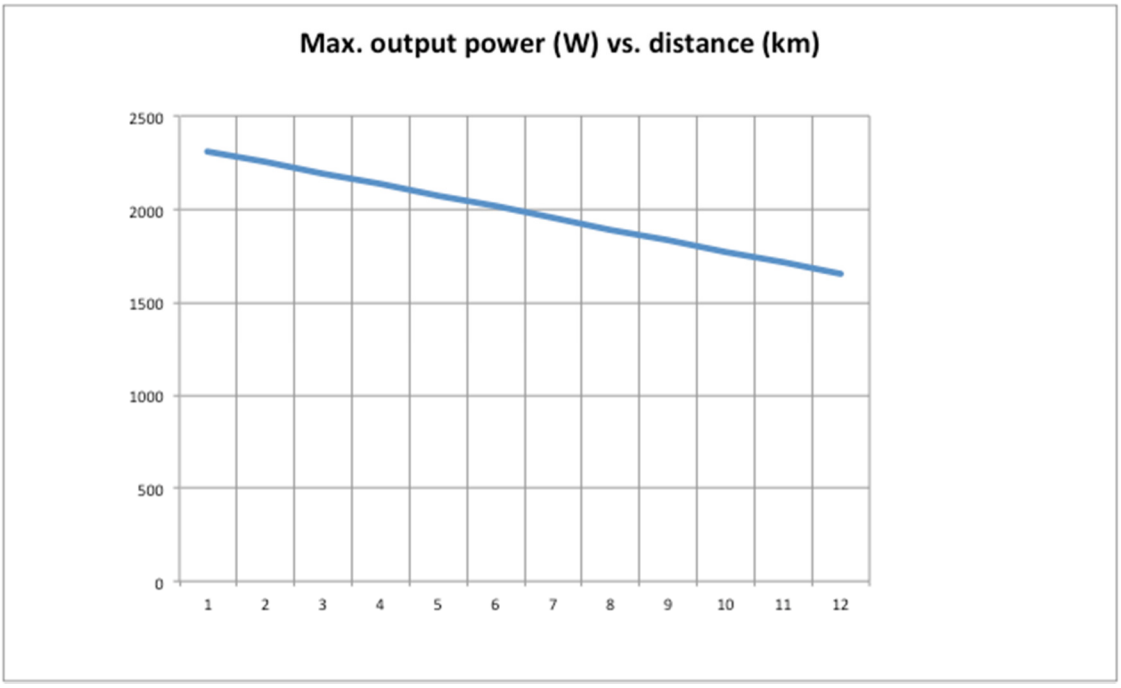

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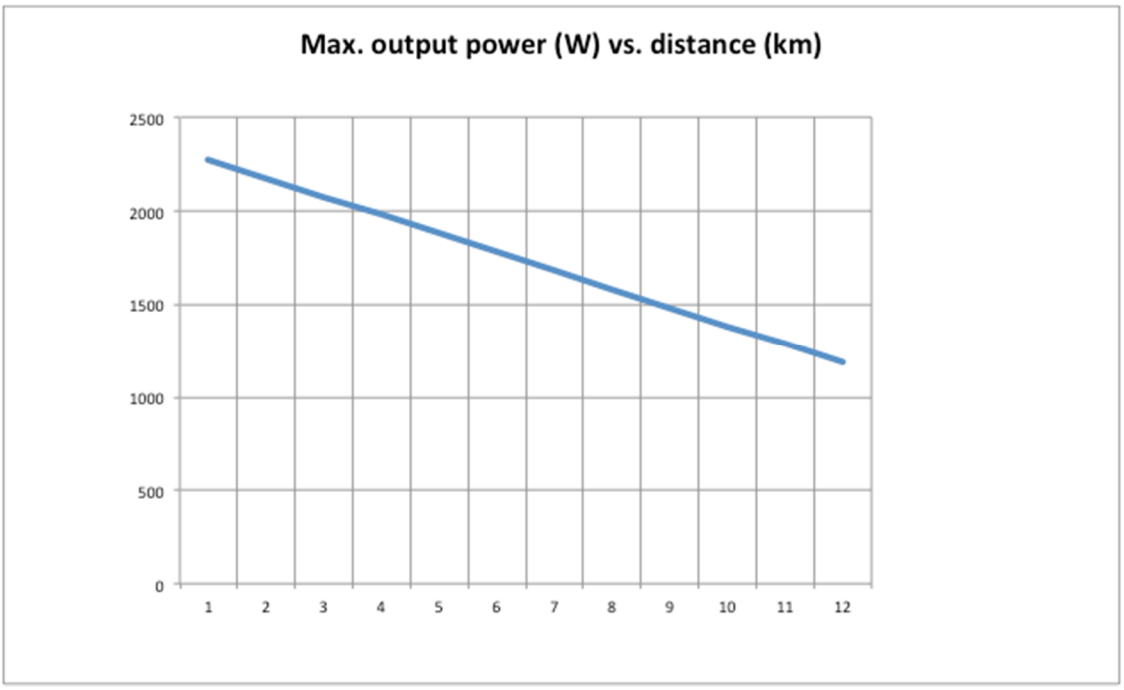

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Operational Principle:

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Max. transmission length	1km..12km	Overload protection	Electronic protection circuit
Environment		Transport	
Operation temperature	-30+50° C	Shock absorbing carrying case	
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External I/O		**Options**	
RJF connectors (MIL RJ-45)	10/100/1000BaseT	• Harsh environment FO-connections with dark fiber or 1000BaseLX signal. • Hybrid cable; RPS to RPS • Customer specific variants are available	
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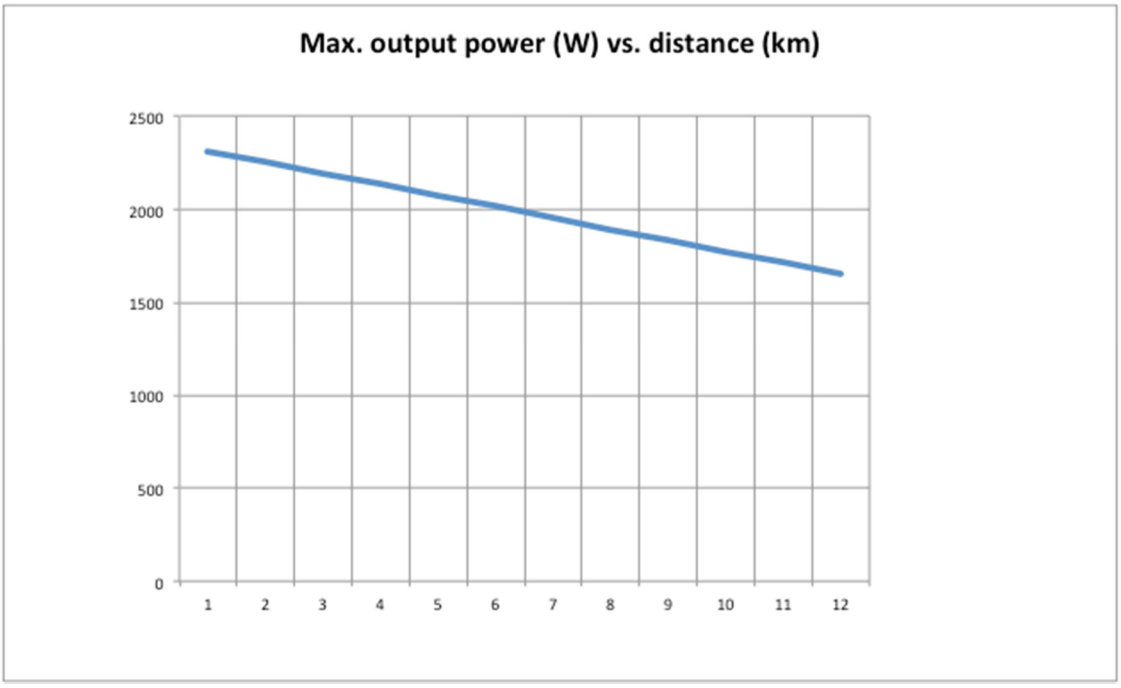

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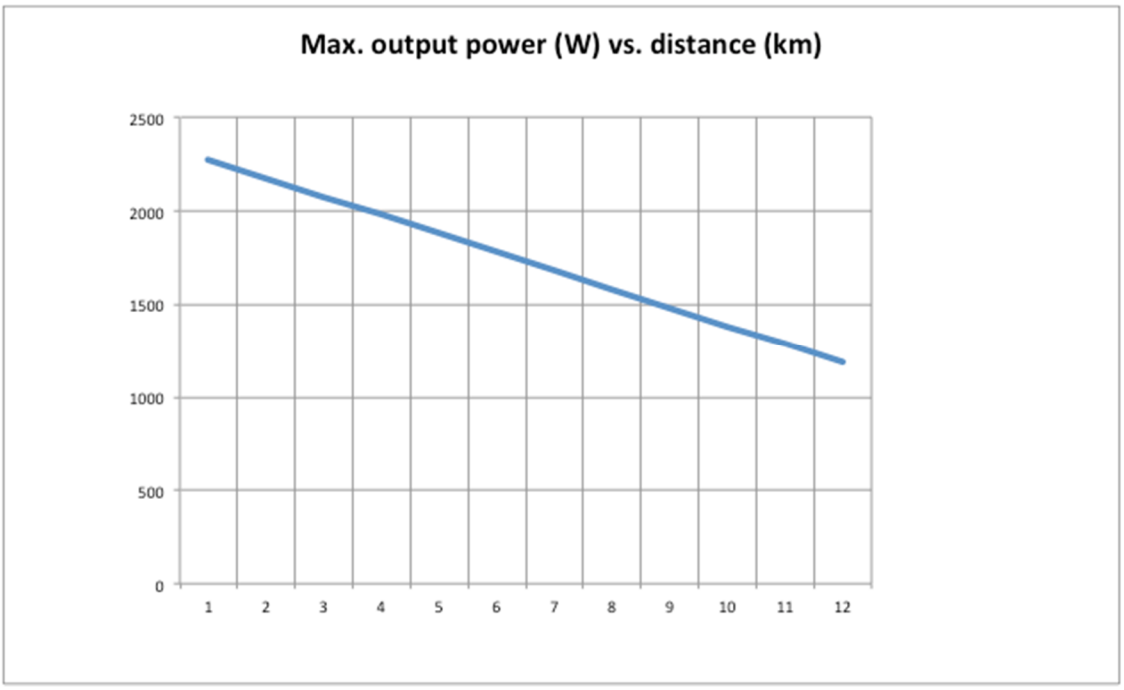

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Datalink - The Engineering Company
Datalink AG, Rellikonstr.7, 8124 Maur, www.datalink.ch

Remote Power Supply DC (for AC or DC in/out)

The RPS is transporting power and data through the powermil cable. These are hybrid cables with copper conductors and optical fibers, to remote equipment over medium to long distances.

The RPS Power and Optical Transmission Unit RPS (Remote Power Supply) feeds remote equipment with signal and power through a single hybrid cable. Application scope includes remote operation and mains supply of transmitter stations and other communication equipment. The RPS minimizes the effort for installations and operation and offers a very low volume and low weight solution.

RPS-Master-Unit for near end and RPS-Slave-Unit for remote end are of the same size and type of case. Available as field case in protection bag or as 19" rack-mounting version.

Applications:

Typical RPS configuration: Ad-hoc connection between a mobile command unit ('supply side') and a remote operation unit ('remote side'), as sensors or actors (e.g. remote radar stations, UAV-base stations, ticketing systems, remote microwave, or weapon systems, stand-alone-systems)

Functionality

The RPS offers high data rate transmission and mains supply through a single hybrid cable. The hybrid cable comprises a high voltage power transmission cable and four single-mode optical fibers in a compact and lightweight construction. It terminates with a highly integrated, hybrid connector for simple mounting. This significantly reduces cabling complexity and installation time compared to traditional solutions where independent cables have to be installed for mains and data transmission. Furthermore, the RPS allows for replacement of remote power generators leading to improved reliability, reduced maintenance effort and no on site man power during operation, reduced emissions and thus improved target protection. Sophisticated provisions such as electronic transmission monitoring protect the equipment in cases of damage and guarantee safe and reliable operation. Four single-mode fiber connections provide high capacity data transmission channels, suited for setting up general purpose remote data networks, for feeding remote transmitter stations with signal and for remote operation of equipment.

Crucial advantages in the deployment

- High economically solution, due to smaller initial and operation costs
- Rapid availability of the current supply owing to simplest installation by personnel
- High mobility since its 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 no noise and heat emissions as with generators)
- High security against electrical accidents (all-insulated, CE certified)
- High reliability due to very durable and harsh-environment-suited design (high mechanical firmness, weather-proof, simple maintenance)
- High working reliability (constantly regulated supply voltage, permanent system monitoring device)

Operational Principle:

The supply voltage can be 24VDC, 48VDC or one phase 230 VAC. This voltage is transformed to the 1'500 VDC level and transmitted with low loss of voltage, via the specially designed hybrid cable, installed between isolated primary and secondary transformers. Two coaxial copper conductors are for power transmission and the implemented four optical fibers enable simultaneous end-to-end signal transmissions, e.g. fast Ethernet used for telephony, data transfer, video/audio, etc. via different standard interfaces.

Variants:

Power input	Power output		
230 VAC	230 VAC	24 VDC	48VDC
24 VDC	230 VAC	24 VDC	48VDC
48 VDC	230 VAC	24 VDC	48VDC

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Technical Specifications

Mechanical data		User Interface	
Size (LxHxD)/mm	500x300x400	Mains switch	On/Off
Weight per unit approx.	20kg		
Power supply		Status indication	LEDs for: • mains local
Input voltage	230VAC/50Hz ± 10% / 24VDC ± 16% / 48VDC ± 16%	**Protection**	
Output voltage	230VAC/50Hz ± 1% / 28VDC ± 1% / 56VDC ± 1%	Isolation to ground	3kV
Max. output power	0.4 kVA..25kVA	Power Transmission	Mains power transmission galvanically isolated and monitored with protective signal
Max. transmission length	1km..12km	Overload protection	Electronic protection circuit
Environment		Transport	
Operation temperature	-30+50° C	Shock absorbing carrying case	
Storage temperature	-40+70° C		
Relative humidity (closed interfaces)	95%		
Waterproof	IP67		
External I/O		**Options**	
RJF connectors (MIL RJ-45)	10/100/1000BaseT	• Harsh environment FO-connections with dark fiber or 1000BaseLX signal. • Hybrid cable; RPS to RPS • Customer specific variants are available	
Hybrid connector	1 x pair copper, 4 x single-mode FO (1310 or 1550nm; RPS to RPS)		
Mains power I/O:			
Power-In (Master-Unit only)	Binder plug, series 693		
Power-Out (Slave-Unit only)	Binder plug, series 693,		

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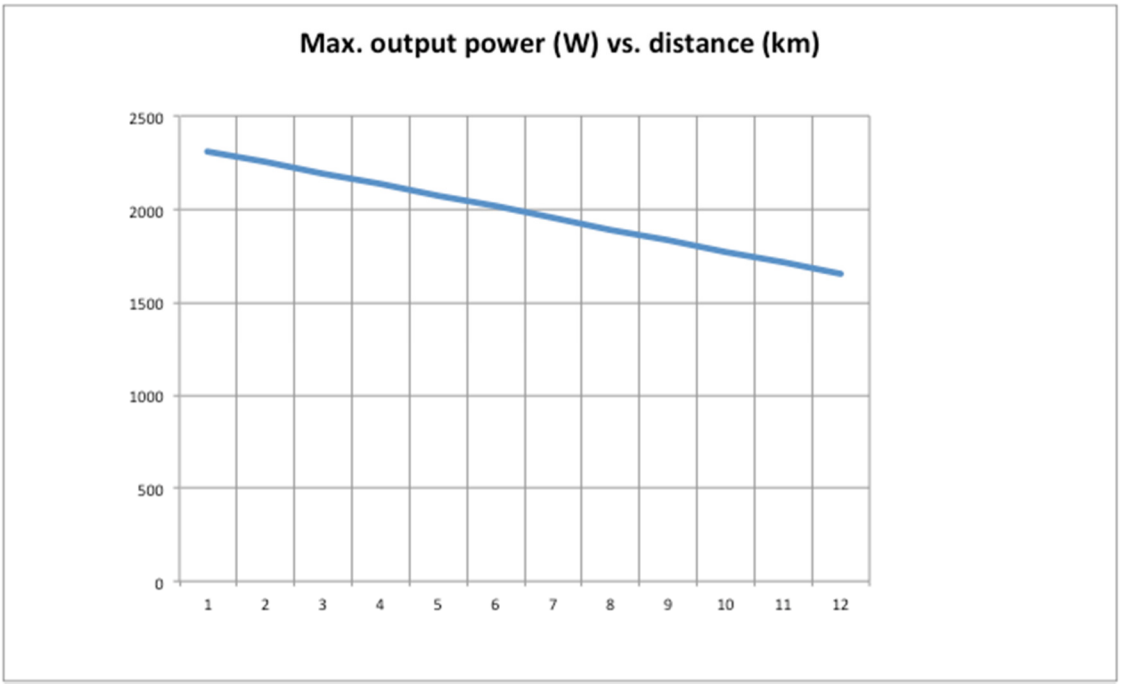
Diagram to see the capabilities of the system regarding power out and distance.

Diagramm for BRUpowermil cable: 1.6 mm^2 Cu



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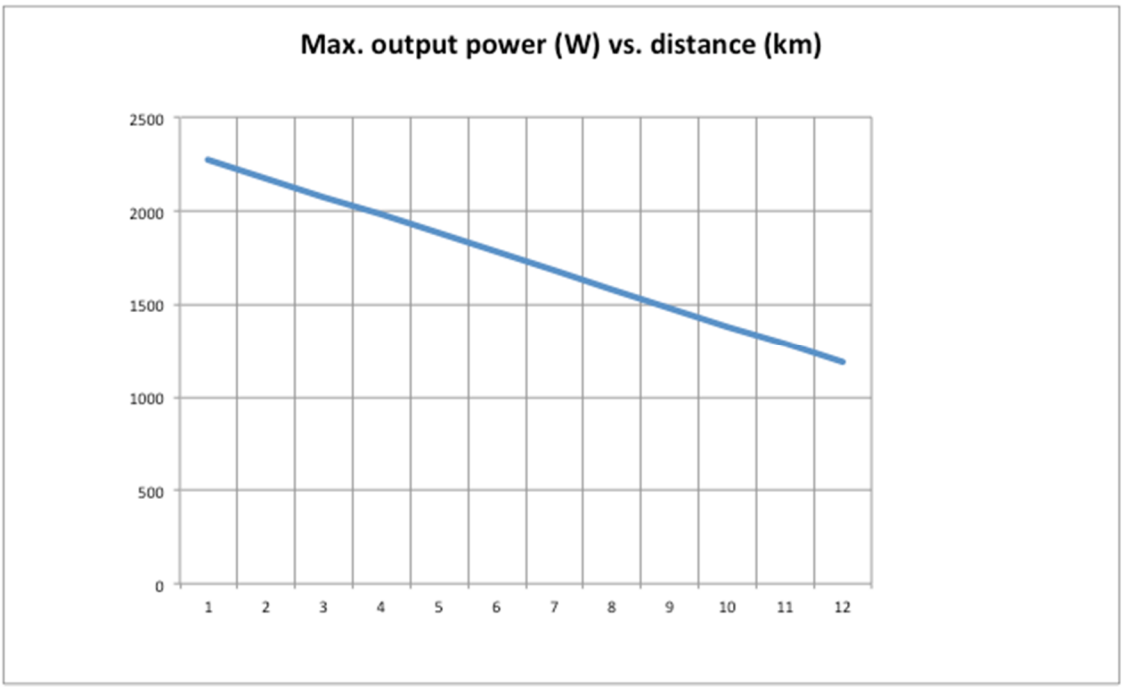

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The RPS offers high data rate transmission and mains supply through a single hybrid cable. The hybrid cable comprises a high voltage power transmission cable and four single-mode optical fibers in a compact and lightweight construction. It terminates with a highly integrated, hybrid connector for simple mounting. This significantly reduces cabling complexity and installation time compared to traditional solutions where independent cables have to be installed for mains and data transmission. Furthermore, the RPS allows for replacement of remote power generators leading to improved reliability, reduced maintenance effort and no on site man power during operation, reduced emissions and thus improved target protection. Sophisticated provisions such as electronic transmission monitoring protect the equipment in cases of damage and guarantee safe and reliable operation. Four single-mode fiber connections provide high capacity data transmission channels, suited for setting up general purpose remote data networks, for feeding remote transmitter stations with signal and for remote operation of equipment.

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Operational Principle:

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Power input	Power output		
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Environment		Transport	
Operation temperature	-30+50° C	Shock absorbing carrying case	
Storage temperature	-40+70° C		
Relative humidity (closed interfaces)	95%		
Waterproof	IP67		
External I/O		**Options**	
RJF connectors (MIL RJ-45)	10/100/1000BaseT	• Harsh environment FO-connections with dark fiber or 1000BaseLX signal. • Hybrid cable; RPS to RPS • Customer specific variants are available	
Hybrid connector	1 x pair copper, 4 x single-mode FO (1310 or 1550nm; RPS to RPS)		
Mains power I/O:			
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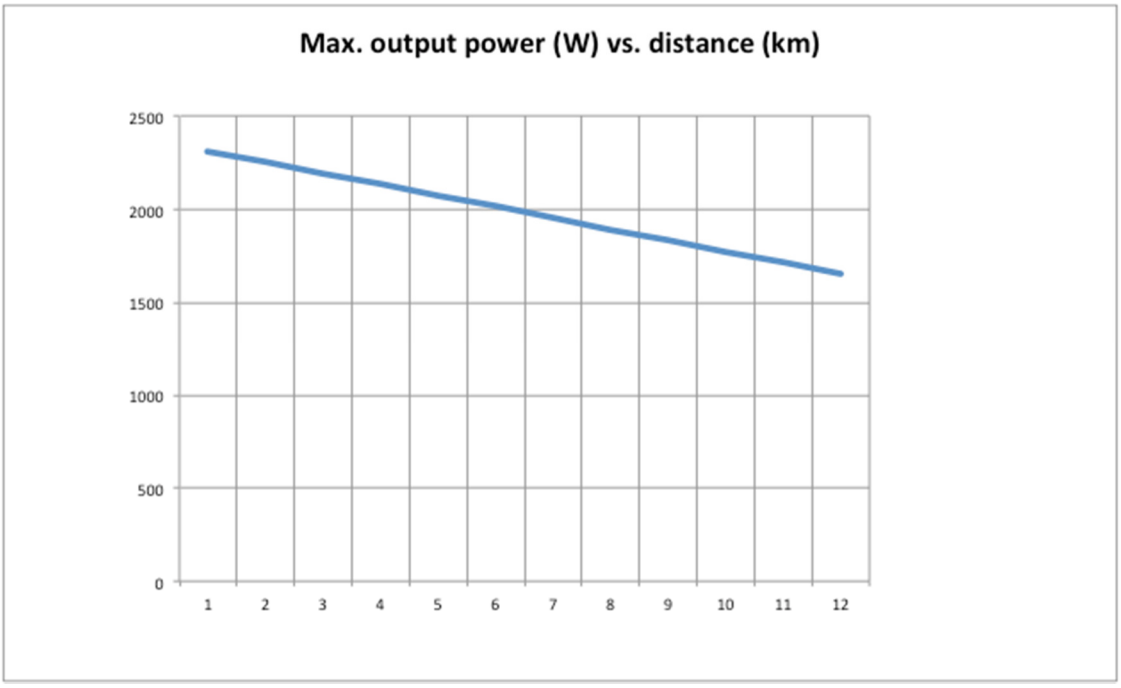

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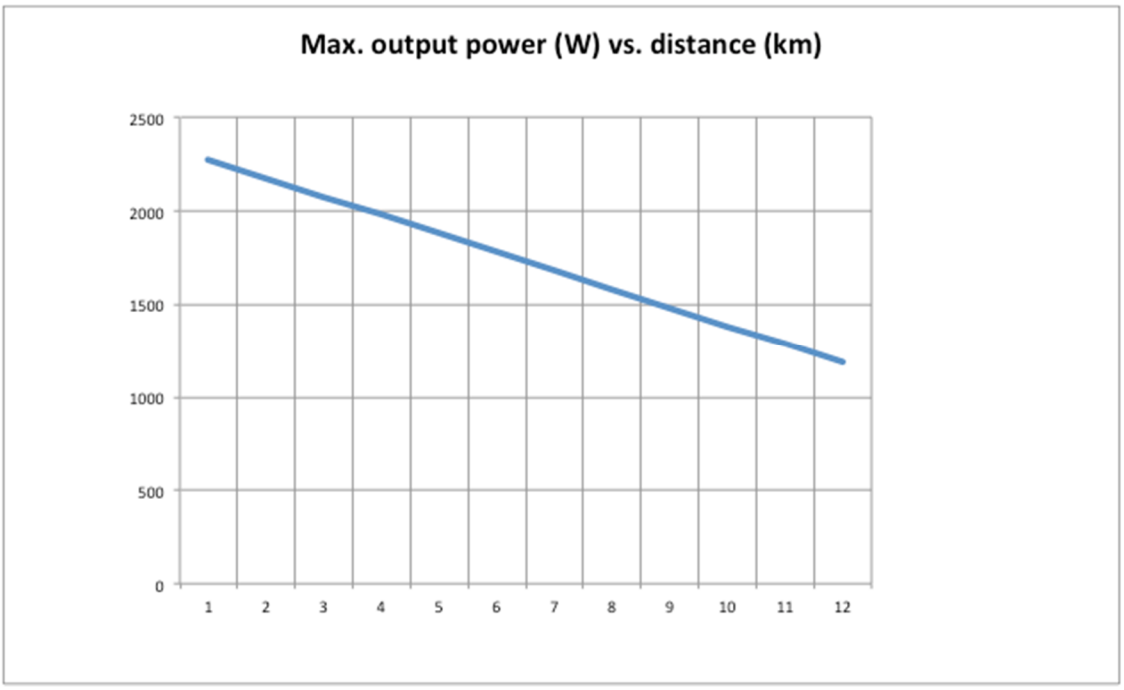

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Operational Principle:

The supply voltage can be 24VDC, 48VDC or one phase 230 VAC. This voltage is transformed to the 1'500 VDC level and transmitted with low loss of voltage, via the specially designed hybrid cable, installed between isolated primary and secondary transformers. Two coaxial copper conductors are for power transmission and the implemented four optical fibers enable simultaneous end-to-end signal transmissions, e.g. fast Ethernet used for telephony, data transfer, video/audio, etc. via different standard interfaces.

Variants:

Power input	Power output		
230 VAC	230 VAC	24 VDC	48VDC
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Weight per unit approx.	20kg		
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Max. output power	0.4 kVA..25kVA	Power Transmission	Mains power transmission galvanically isolated and monitored with protective signal
Max. transmission length	1km..12km	Overload protection	Electronic protection circuit
Environment		Transport	
Operation temperature	-30+50° C	Shock absorbing carrying case	
Storage temperature	-40+70° C		
Relative humidity (closed interfaces)	95%		
Waterproof	IP67		
External I/O		**Options**	
RJF connectors (MIL RJ-45)	10/100/1000BaseT	• Harsh environment FO-connections with dark fiber or 1000BaseLX signal. • Hybrid cable; RPS to RPS • Customer specific variants are available	
Hybrid connector	1 x pair copper, 4 x single-mode FO (1310 or 1550nm; RPS to RPS)		
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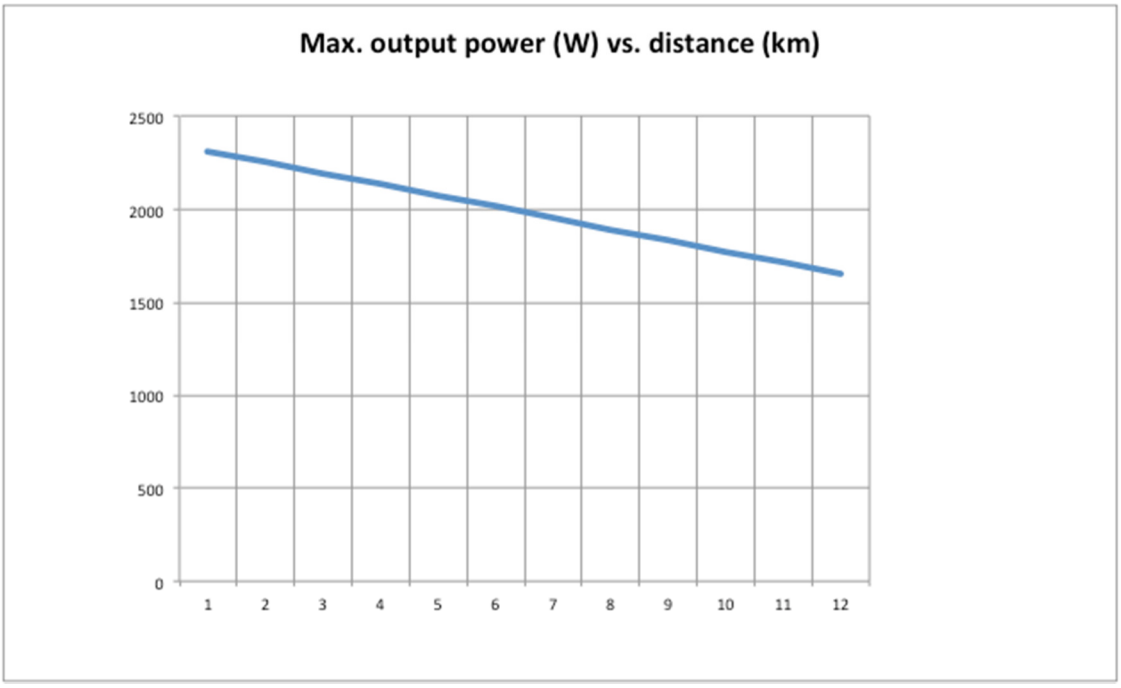

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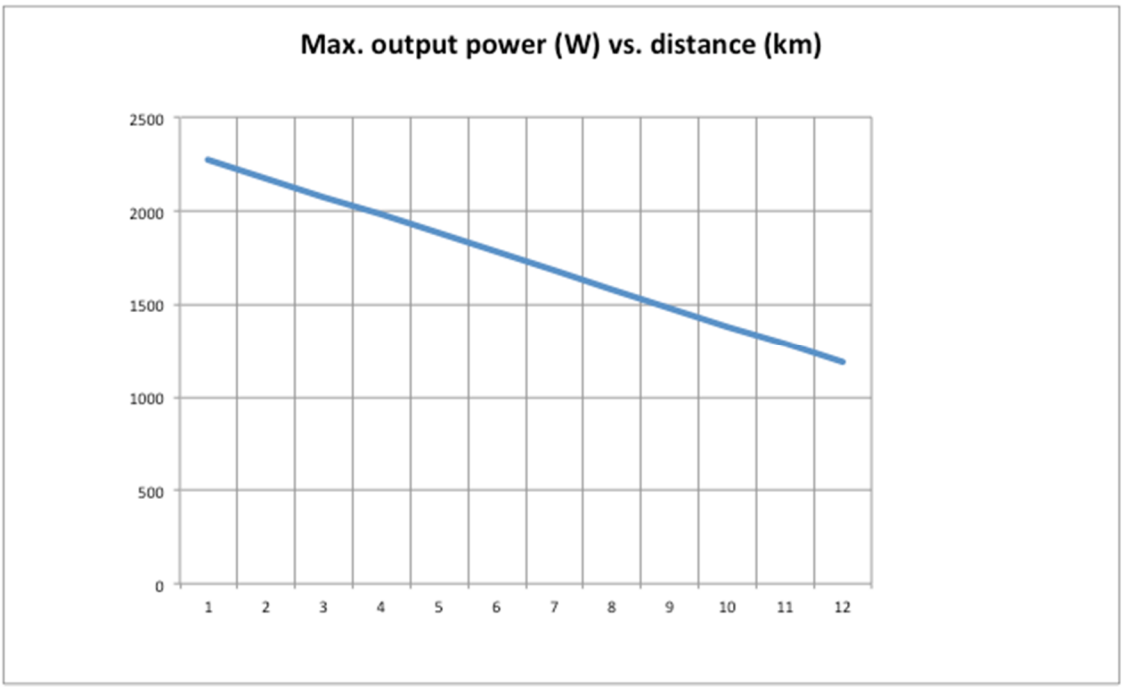

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Operational Principle:

The supply voltage can be 24VDC, 48VDC or one phase 230 VAC. This voltage is transformed to the 1'500 VDC level and transmitted with low loss of voltage, via the specially designed hybrid cable, installed between isolated primary and secondary transformers. Two coaxial copper conductors are for power transmission and the implemented four optical fibers enable simultaneous end-to-end signal transmissions, e.g. fast Ethernet used for telephony, data transfer, video/audio, etc. via different standard interfaces.

Variants:

Power input	Power output		
230 VAC	230 VAC	24 VDC	48VDC
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Weight per unit approx.	20kg		
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Max. output power	0.4 kVA..25kVA	Power Transmission	Mains power transmission galvanically isolated and monitored with protective signal
Max. transmission length	1km..12km	Overload protection	Electronic protection circuit
Environment		Transport	
Operation temperature	-30+50° C	Shock absorbing carrying case	
Storage temperature	-40+70° C		
Relative humidity (closed interfaces)	95%		
Waterproof	IP67		
External I/O		**Options**	
RJF connectors (MIL RJ-45)	10/100/1000BaseT	• Harsh environment FO-connections with dark fiber or 1000BaseLX signal. • Hybrid cable; RPS to RPS • Customer specific variants are available	
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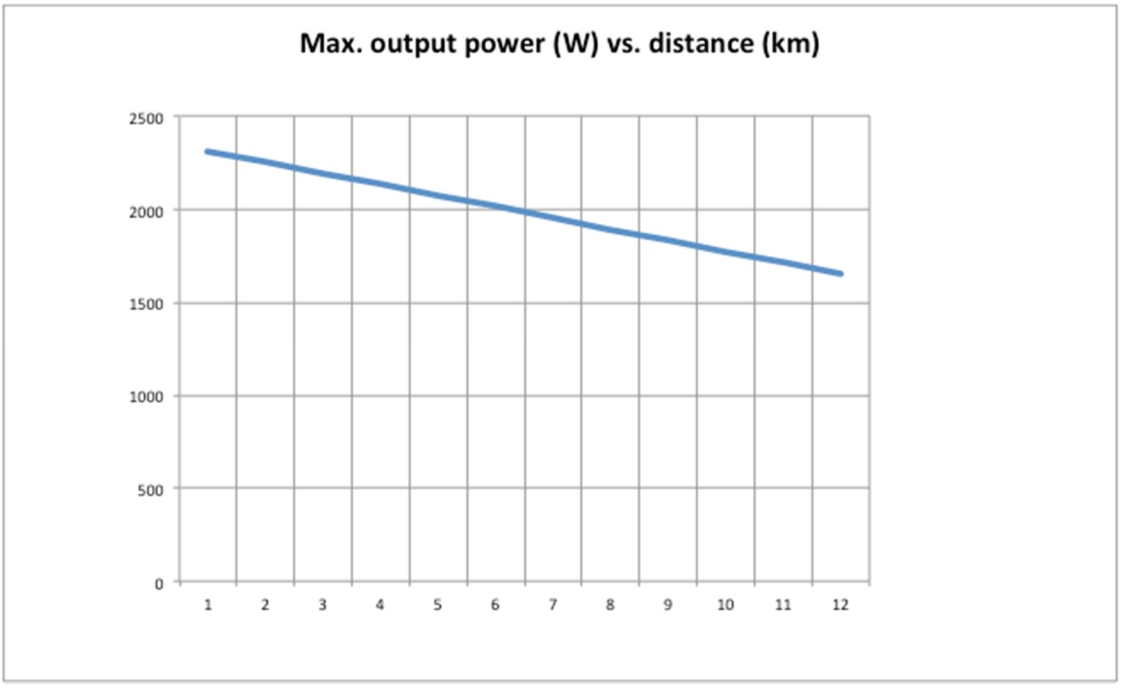

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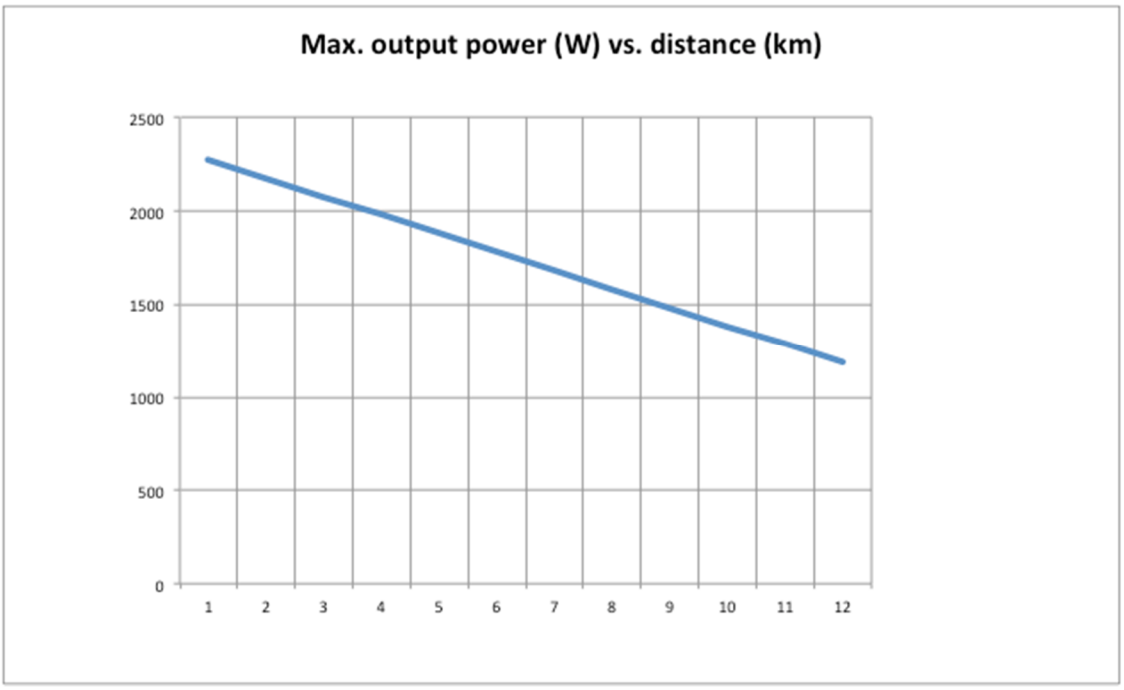

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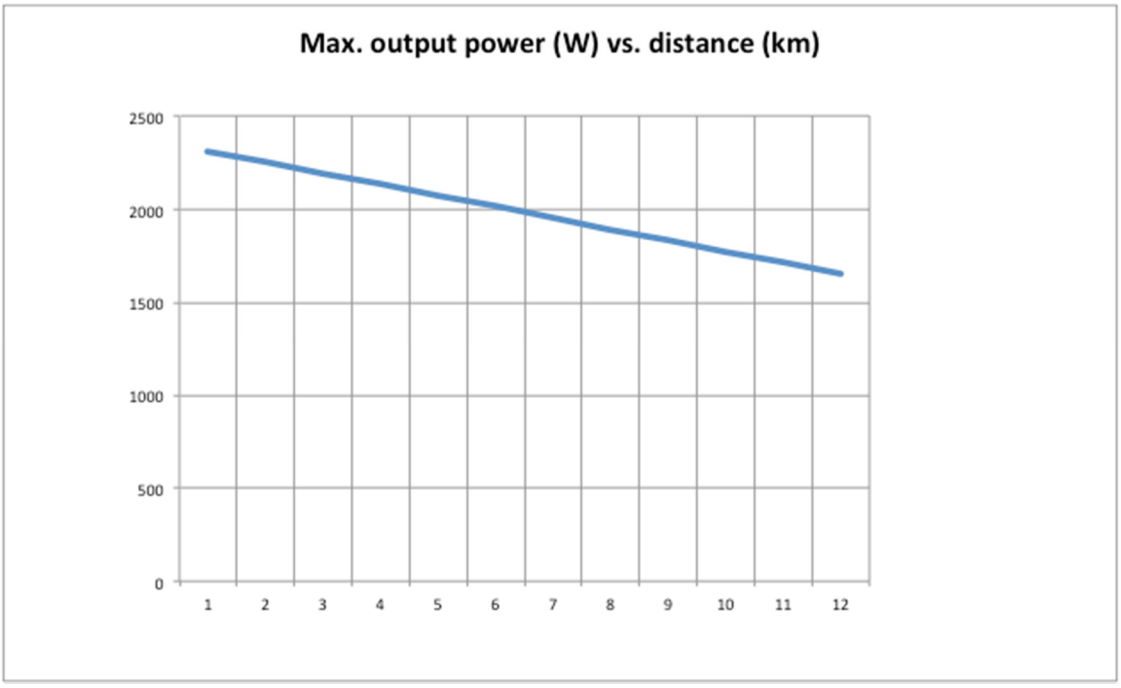
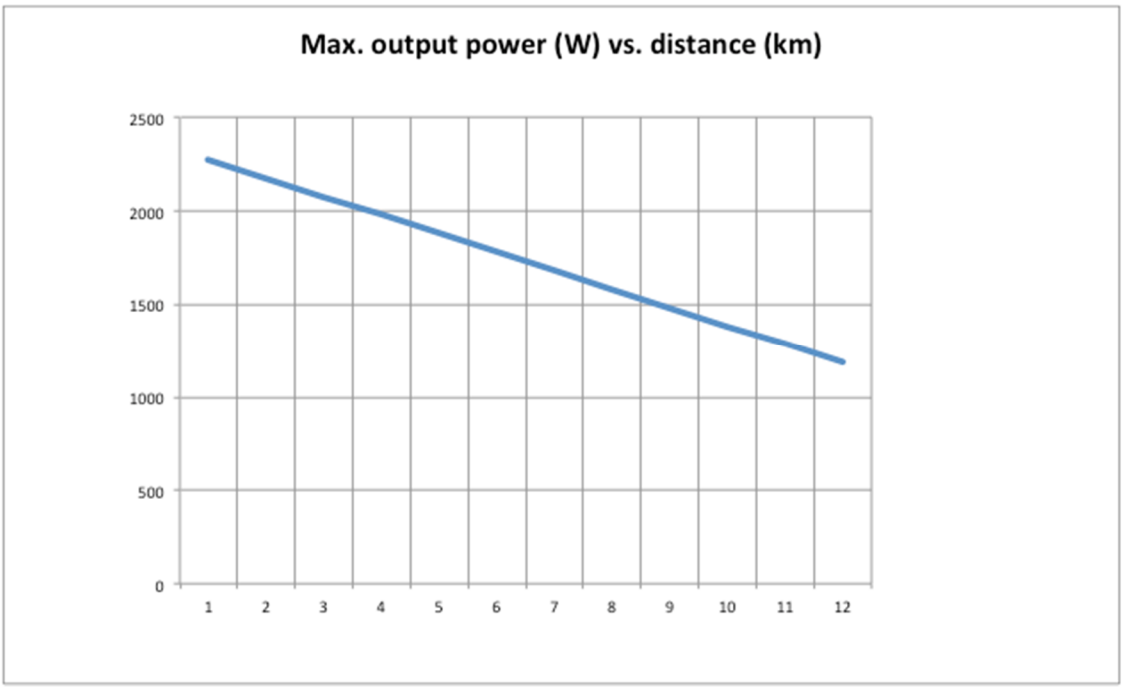


Diagramm for BRUpowerfield: 1.0 mm^2 Cu



Entwicklung und Produktion
für industrielle Elektronik
Datalink - The Engineering Company
Datalink AG, Rellikonstr.7, 8124 Maur, www.datalink.ch