

RUGGED POWER SOLUTION

FOR MOBILE AND STATIONARY SYSTEMS

DESCRIPTION

The new RP24 PowerPack incorporates reinforced insulation to meet IEC Class II requirements, eliminating the need for a ground connection. The compact size of the 1000W AC/DC power supply makes it ideal for use as a 24VDC supply for field-deployed radios and other communications equipment as well as to supply auxiliary DC power to air and ground vehicles in harsh environments.

- > 1000 W AC-DC PSU
- > AC input: 115 / 230 VAC (reinforced isolation class II)
- > 24 VDC input and output
- > Battery charger
- > UPS function
- > IP67 protection



ELECTRICAL SPECIFICATION

Input

Operating Input Voltage:	115 / 230 VAC
Input Current:	6 A @ 230 VAC
Class of equipment:	Class II
Isolation:	3 kVAC

Output

Output voltage:	24 VDC
Output power:	1000 W
Ripple noise:	< 150 mVpp

OPERATION AND FUNCTIONS

Control- and Displayelements

Main switch:	Toggle switch on – off
Rotary switch with push-button:	Menu navigation for setup and control
Alphanumeric display:	Indication of operating condition, operating time, kWh, error messages and diagnosis

Connections

AC-Line:	AC Input
AKKU1, AKKU2:	Connection for battery (input/output)
LOAD1, LOAD2:	Connection for load
Ethernet:	Diagnostic interface, SNMP.V2 protocol (SNMP.V3 on request)
GND connection:	Lightning protection
*Connector at Load1 and Load2 Output:	Amphenol MS3102R20-23S (screw threaded connector)
*Connector at Akku1 and Akku2 Output:	ITT CANNON CA3102E20-24SB (Bayonet connector)
*Connector at AC-In:	Binder 09-4227-00-07
*Connector at Ethernet:	Amphenol TVP00RVV-9-9

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DIMENSIONS AND WEIGHT

Dimension and Weight

Outline dimension:	451 x 473 x 113.1 mm
Weight:	< 20 kg

SYSTEM SPECIFICATIONS

Environment

Operating altitude max.:	3'500 m
Transportation altitude max.:	5'500 m
Operating / storage temperature:	-35 °C to +60 °C / -40 °C to +85 °C
Efficiency:	91 %
MTBF:	110'000 h (MIL HDBK217F) @ max. load
Shock:	MIL-STD-810G (Method 516.6-I)
Vibration:	MIL-STD-810G (Method 514.6 Cat 4,7,10,11)
Atmospheric pressure:	MIL-STD-810G (Method 500.5-I and II)
Temperature:	MIL-STD-810G (Method 501.5-I and II, limited to 60°C) MIL-STD-810G (Method 502.5-I and II)
Rain, Humidity, Sand, Dust:	MIL-STD-810G (Method 506.5, 507.5, 510.5), EN60529

Security, EMC, HEMP

Safety:	EN61204, -7; EN60950-1 (Class II)
EMC:	EN61000-6-2, EN61000-6-3, EN61204-3, MIL-STD-461G MIL-STD-461G (RE102, CE102)
Lightning, HEMP	HPE degree of protection II