

RP24 RUGGED POWER SOLUTION

MAIN FEATURES

FOR THE SUPPLY OF MOBILE, PARTIALLY MOBILE AND STATIONARY SYSTEMS

- › 1000 W AC-DC PSU
- › AC input: 115 / 230 VAC (reinforced isolation class II)
- › DC in- and outputs 27 V DC for 24 V Board Net
- › Battery charger
- › UPS function
- › IP67 protection

RP 24 - RUGGED POWER SOLUTION



ELECTRICAL SPECIFICATIONS

Input

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

Output

Output voltage:	27 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
USB type A:	Power supply 5 VDC
USB type B:	Diagnostic interface
GND connection:	Lightning protection

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)
Vibration:	MIL-STD-810G (Method 514.7)
Atmospheric pressure:	MIL-STD-810G (Method 500.5)
Temperature:	MIL-STD-810G (Method 501.5, limited to 60°C) MIL-STD-810G (Method 503.5)
Rain, Humidity, Sand, Dust:	MIL-STD-810G (Method 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
Lightning, HEMP	HPE degree of protection II

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