

ACDC



## External Power Supply R&S® IN 4000A

For navy and air defense applications

- ◆ All-purpose AC/DC power supply
- ◆ Compact dimensions
- ◆ Power factor correction
- ◆ Automatic overtemperature protection
- ◆ Internal built-in test (BITE)
- ◆ Complies with military specifications



**ROHDE & SCHWARZ**

## General

The R&S® IN 4000A is a compact multipurpose AC/DC power supply. It can be used in combination with different radio types and filters in navy and air defense applications. The R&S® IN 4000A is prepared for rack installation.

Indicators for the following functions are supplied:

- ◆ Overtemperature
- ◆ BITE failure
- ◆ Input power failure

## Specifications

The output voltage is electrically isolated from the protective conductor. On/off switch on front panel: disconnection of input voltage (two-pole).

<b>General data</b>	
Input	
Input voltage	100 V to 240 V, 50/60 Hz 115 V at 50/60/400 Hz
Current drain	8.5 A to 3.4 A
<b>Output (open-circuit- and short-circuit-proof)</b>	
Output voltage	28.4 V, via jumper 24 V
Output current	25 A
Cooling	built-in temperature-controlled fans
Max. output power	700 W
Residual ripple	$V_{pp} \leq 1\%$ , $V_{rms} \leq 5\text{ mV}$ for $f > 50\text{ kHz}$ (rms)
MTBF	>80000 h
Permanent short-circuit protection	yes
Overload protection	yes
Electrical safety	EN 60950, EN 60215
<b>Environmental data</b>	
Operating temperature range	-20 °C to +55 °C power supply starts at -25 °C <sup>1)</sup>
Transportation and storage temperature range	-25 °C to +70 °C

Humidity (40 °C)	EN 60068-2-30, 5% to 95%, no condensation
EMI/EMC	MIL-STD-461C/Part 4 RE02 (at 20 kHz up to 1 GHz) CE03 (at 20 kHz up to 50 MHz)
Transients and spikes (AC supply)	STANAG 1008 Edition 8
Vibration	5 Hz to 55 Hz 0.4 mm double amplitude, test period: 30 min. in three axes in line with EN 60068-2-6
Shock	45 Hz to 2000 Hz, $\leq 40\text{ g/3}$ shocks in three axes acc. Mil STD 810D method 516.3 and EN 60068-2-27
<b>Permissible altitude</b>	
transport	10000 m above sea level
operation	5000 m above sea level
<b>Mechanical data</b>	
Dimensions	19" plug-in, 1 HU, depth 420 mm
Weight	approx. 5.8 kg

<sup>1)</sup> After 5 min. warm-up device complies with specs.

More information at  
[www.rohde-schwarz.com](http://www.rohde-schwarz.com)  
(search term: IN4000A)



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