



Contents Overview

Chapter Overview

Type Index

R&S Addresses



Programmable Power Supplies NGPU

NGPU 70/10: 175 W

(70 V/max. 10 A)

NGPU 70/20: 350 W

(70 V/max. 20 A)

Photo 26310



Brief description

NGPU Power Supplies are constant voltage or constant-current sources, which can be programmed via IEEE/IEC bus or operated manually. Three selectable current ranges and one floating test output which can be switched between voltage and current make the NGPU ideal for use in IEEE/IEC bus test systems.

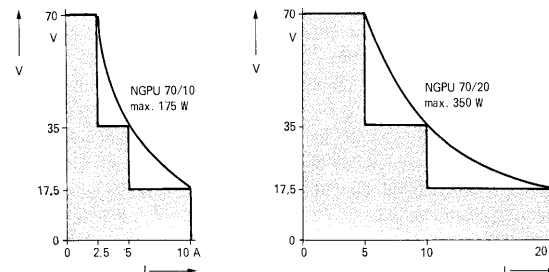
Graduated current loadability

Since the current drain of many loads – for instance of transceivers – is inversely proportional to the supply voltage, a graduated current loadability is fully compatible with practical requirements. The maximum continuous current drain for the selected output voltage is indicated on a

scale of the panel voltmeter. Brief current surges exceeding this load limit are tolerable. If above 15 V a current exceeding this limit is permanently drawn, the power supply is disconnected from the AC supply via the built-in temperature monitor.

Main features

- Programming via IEEE/IEC bus or manual operation
- Three-digit programming of voltage and current (1000 steps), resolution: 10 mV to 100 mV, 10 mA to 20 mA
- Output current in three decade ranges



Current loadability is graduated as a function of the output voltage. Full output current can be derived over almost 80% of the voltage range. As the figure shows, the characteristic practically combines the curves, ie the performance, of three individual supplies

Specifications in brief

Output quantities	adjustable via ten-turn potentiometer or IEEE/IEC bus	
Resolution manual control	0.02%	
Resolution IEEE/IEC bus	1000 steps/range; for voltage adjustable 10 to 100 mV/step <10 mV to 70 V	
Voltage	NGPU 70/10 NGPU 70/20	
Current	0.1/1/10 A	0.2/2/20 A
3 ranges		
Deviation of output voltage/current	$<10^{-5}/<5 \times 10^{-5}$ $<(10^{-4}/K+100 \mu V)/<(10^{-4}/K+100 \mu A)$ $<10^{-4}/<5 \times 10^{-4}$	
with $\pm 10\%$ AC supply variation between 0 and 40°C		
with 10 to 90% load		
PARD		
Voltage, V_{rms}	<1.5 mV	<1.5 mV
Current, I_{rms}	<5 mA	<10 mA
Transient recovery time (10 to 90% load)	<60 μs	<60 μs

Remote control
Remote sensing
Test output for voltage
for current
Overvoltage protection

General data

AC supply
Power consumption
Dimensions (W x H x D) in mm
Weight

NGPU 70/10	NGPU 70/20
IEC 625-1 (IEEE 488)	IEC 625-1 (IEEE 488)
	compens. for 0.5 V per lead
	100 mV $\pm 1\%$ at 70 V
	100 mV $\pm 2\%$ for full scale adjustable from 4.5 to 80 V

110/220 V $\pm 10\%$, 50 to 60 Hz	
600 VA	1250 VA
492 x 161 x 514	492 x 205 x 514
14 kg	19 kg

Ordering information

Programmable Power Supply	NGPU 70/10	0192.0049.92
	NGPU 70/20	0192.0055.92



Contents Overview

Chapter Overview

Type Index

R&S Addresses

