

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 IEC/IEEE 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 IEC/IEEE-bus test systems.

Main features

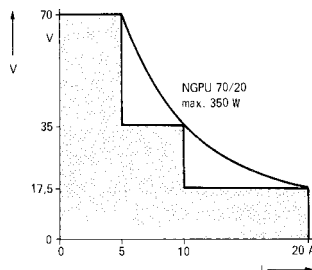
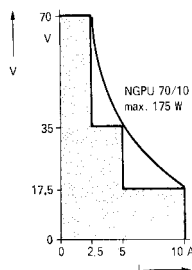
- Programming via IEC/IEEE bus or manual operation
- Three-digit programming of voltage and current (1000 steps), resolution: 10 to 100 mV, 10 to 20 mA

- Output current in three decade ranges

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 continu-

ous 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.



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, i.e. the performance, of three individual supplies.

Specifications in brief

Output quantities

adjustable via ten-turn potentiometer or IEC/IEEE bus

Resolution

0.02%
1000 steps/range; for voltage adjustable 10 to 100 mV/step

Voltage

Current

NGPU 70/10 **NGPU 70/20**
0.1/1/10 A 0.2/2/20 A

Deviation of output voltage/current

<10⁻⁵/<5 x 10⁻⁵
<(10⁻⁴/K+100 μV)/
<(10⁻⁴/K+100 μA)
<10⁻⁴/<5 x 10⁻⁴

PARA

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

IEC 625-1 (IEEE 488)

compens. for 0.5 V per lead

100 mV ±1% at 70 V

100 mV ±2% for full scale

adjustable from 4.5 to 80 V

General data

AC supply

Power consumption

Dimensions (W x H x D) in mm

Weight

110/220 V ±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