

# Triple Power Supply NGPT

## NGPT35:

2 × 35 V/1 A and 1 × 7 V/5 A

## NGPT18:

2 × 18 V/2 A and 1 × 7 V/5 A

## NGPT7:

2 × 7 V/5 A and 1 × 18 V/2 A



Photo 40649

## Main features

- Insensitive to RF voltages radiated by device under test or nearby antenna
- Very low PARD (periodic and random deviation) due to linear regulation
- 14 bit resolution
- Precise and stable over wide temperature range
- Simultaneous readout of nominal and actual values of all channels
- Output voltage of all channels simultaneously variable by a percentage value
- Nonvolatile storage of up to six complete setups
- Software calibration via IEC/IEEE bus without potentiometer adjustment

- Coupled protection mode for DUTs which should not be supplied from an asymmetrical voltage source
- Floating outputs, max. 120 V DC
- Remote sensing (0.5 V per lead)
- Soft limits for defined voltage and current limiting
- Hardware overvoltage protection
- Quiet, temperature-controlled fan
- 19" system unit, full system capability via IEC/IEEE bus interface (IEC 625-1/IEEE 488-2)

## Operation

### Setting and display

Three displays are provided for indication of the nominal and actual values. A separate display is provided

for status information and menu-guided operation.

### Variable by percentage

For module testing, NGPT 35 provides the possibility of varying the output voltage of all three channels simultaneously in percent. After selection of the channels to be included in this operating mode, the desired variation can either be set via the numeric keypad or in steps of 0.1, 1 or 10% using the increment/decrement keys.

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## Specifications in brief

Constant-voltage source	35 V	18 V	7 V
Voltage range	0 to 35 V	0 to 18 V	0 to 7 V
Resolution	2.5 mV	2.0 mV	0.5 mV
Deviation of full scale	<0.01%	<0.01%	<0.01%
with $\pm 10\%$ AC supply variation	<0.001%	<0.001%	<0.001%
from 0 to 45°C	<0.005%/°C	<0.005%/°C	<0.005%/°C
with 10 to 90% rated current	0.01%	0.01%	0.01%
Transient recovery time			
following load variation	75 $\mu$ s	75 $\mu$ s	150 $\mu$ s
Programming time	35 ms	35 ms	35 ms
PARD ( $V_{rms}$ )	200 $\mu$ V	200 $\mu$ V	100 $\mu$ V
<b>Constant-current source</b>			
Current range	0 to 1 A	0 to 2 A	0 to 5 A
Resolution	0.1 mA	0.2 mA	0.5 mA
Deviation of full scale	<0.02%	<0.02%	<0.02%
with $\pm 10\%$ AC supply variation	<0.002%	<0.002%	<0.002%
from 0 to 45°C	<0.01%/°C	<0.01%/°C	<0.01%/°C
with 10 to 90% rated voltage	0.02%	0.02%	0.02%
Transient recovery time			
following load variation	10 ms	10 ms	5 ms
Programming time	60 ms	60 ms	60 ms
PARD ( $I_{rms}$ )	20 $\mu$ A	20 $\mu$ A	100 $\mu$ A
<b>Display</b>			
Voltage measurement	0 to 40 V	0 to 32.7660 V	0 to 8 V
Resolution	2.5 mV	2.0 mV	0.5 mV
Deviation of full scale	<0.01%	<0.01%	<0.01%
from 0 to 45°C	<0.005%/°C	<0.005%/°C	<0.005%/°C
Measurement rate	2 per s	2 per s	2 per s
<b>Current measurement</b>			
Current range	0 to 1 A	0 to 3,2766 A	0 to 5 A
Resolution	0.1 mA	0.2 mA	0.5 mA
Deviation of full scale	0.02%	0.02%	0.02%
from 0 to 45°C	<0.01%/°C	<0.01%/°C	<0.01%/°C
Measurement rate	2 per s	2 per s	2 per s
<b>Soft limits</b>			
Voltage range	0 to 35 V	0 to 18 V	0 to 7 V
Resolution	2.5 mV	2.0 mV	0.5 mV
Current range	0 to 1 A	0 to 2 A	0 to 5 A
Resolution	0.1 mA	0.2 mA	0.5 mA
<b>Overvoltage protection</b>			
Voltage range	1.5 to 40 V	1.5 to 25,55 V	1,5 to 10 V
Resolution	100 mV	50 mV	20 mV
Deviation of full scale	<2%	<2%	<2%
Response time	50 $\mu$ s	50 $\mu$ s	50 $\mu$ s
<b>Voltage variation</b>			
Resolution	0.1%	0.1%	0.1%
Range	0 to 35 V	0 to 18 V	0 to 7 V
<b>General data</b>			
AC supply	100/120/220/240 V $\pm 10\%$ , 50 to 60 Hz, 350 VA		
Dimensions (W x H x D); weight	492 mm x 161 mm x 514 mm; 16 kg		

## Ordering information

Triple Power Supply	NGPT35	0192.0510.31
	NGPT18	0192.0510.21
	NGPT7	0192.0510.71