DAGATRON®

Programmable Power Supply

PN 300

◆ Features

- Triple output programmable DC power supply
  Dual voltage/current DC 0-30V/0-2.3A
  Fixed voltage/current DC 5V/2A
- Basic setting accuracy voltages ± 0.05%
  currents :± 0.5%
- 148W with small external dimensions
- Independent. Tracking. Parallel mode
- Parallel working for the doubling of the fan-out current (0.3A-4.6A)
- Adjustment of voltage range : in steps of 10mV
  current range : in steps of 1mA
- Regulation characteristic switchable between CV mode and current CC mode
- Protective functions – limiting, cut-out set
- Are-setting (memory) – 5place (store/load)
- Automatic Internal temperature control
- Data preserve after switch off
- Low noise/excellent regulation
- RS-232C/IEEE488.2 interfaces
- Radio interference suppression – EN55011 Class B
- Safety class – I according to EN61010 Part 1

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◆ Technical Specification of PN 300 Programmable Power Supply

Operating modes for sources A, B

Independent, Parallel, Tracking, Constant voltage(CV), Constant current(CC), optional protection by current limiting or output disabling

Characteristics of sources A and B

Output voltage	0V – 30V
Output current	0A – 2.3A
Setting accuracy Voltage Current	 ±(0.05% + 15mV) ±(0.5% + 10mA)
Interference voltage at output	$1mV_{rms}$ in the bandwidth 15Hz to 15MHz
Measuring accuracy: Voltage Current	 ±(0.5%+100mV) ±(0.5%+10mA)
Stability of output voltage on mains fluctuations	±(0.01%+3mV)
Stability of output voltage on load change	±(0.02%+6mV)
Setting increments: Voltage Current	 10mV 1mA
Maximum output voltage to ground	$250V_{rms}$
Control response	≤ 300us damping time for the adjusted voltage in the range ±15mA
Indication on display: Voltage Current	 Max. 30.00V Max. 2.300A

Parallel connection of sources A and B

Output current	0.3A – 4.6A
Setting accuracy: Current	 ± (1% +20mA)
Measuring accuracy: Current	 ± (1% +20mA)
Indication on display: Current	 Max. 4.600A

Source C (5V/2A)

Output voltage	5V ±5%
Output current	Max. 2 A
Interference voltage at output	$2mV_{rms}$

General Data

Nominal temperature	+23℃ ±2℃
Operating temperature	+5℃ ...+40℃
Operating voltage	230V/115V(+10%/-15%)
Mains frequency	50-60Hz
Power consumption	450VA
Safety class	I according to EN 61010/DIN VDE 0411, Part1 1993
Interference suppression	Vfg, 1046, 1984; VDE0891 Category B
Dimensions (W × H × D)	291mm × 120mm × 259mm
Weight Weight incl. packing and accessories	approx. 6.8kg approx. 8.4kg

Accessories supplied with the package

Mains cable, Operating instruction, Spare fuses

System Interfaces

The power supply unit can be fully controlled and be read out via the parallel interface GPIB and the serial interface RS-232C

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