

RESEARCHER RANGE

POWERSUPPLIES: SPECIAL FEATURES

RUGGED

Reduced probability of transistor burnout due to the use of MOSFETs with high voltage and current capacity

Instantaneous voltage stabilization, input voltage spikes removed due to inbuilt constant voltage transformer

Can be used in low voltage and high current applications due to transistor load sharing circuitry in series and/or parallel

CONVENIENCE

Small foot print due to the low EMI radiation of transformer

Voltage and current readings can be viewed simultaneously due to the independent displays

Independent monitoring of the two outputs by the use of selection switch

SAFETY

No shock from accidental contact with single output due to high insulation between primary and secondary windings of transformers

Short circuit proof due to special motherboard design

ECONOMICAL

Two apparatus of similar resistance can be run simultaneously

Reduced maintenance and repairing cost as low probability of burnouts and short circuits

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POWER SUPPLY UNIT SELECTION GUIDE

| Model | Max. rated voltage | Max. rated current | In-built stabilizer | Display | Application | Best with TS models |
|------------------------|--------------------|--------------------|---------------------|----------------------------------|--------------------------------|---|
| Electragel-100 | 300 V | 100 mA | YES | Separate for voltage and current | Small & medium vertical gels | Microkin, Monokin, Minikin |
| | | | | | Small & medium horizontal gels | Sleeksub, Gelmariner, Greyhound, Bi-strip |
| | | | | | Miniblots | Nanoblot, Microblot |
| Electrapage-200 | 500 V | 200 mA | YES | Separate for voltage and current | All vertical gels | Microkin, Monokin, Minikin, Macrokin-S, Macrokin |
| | | | | | Horizontal gels | Sleeksub, Gelmariner, Greyhound, Greywhale, Bi-strip |
| | | | | | All blots | Nanoblot, Microblot, Technoblot |
| Electracomet | 200 V | 500 mA | NO | Separate for voltage and current | All blots | Nanoblot, Microblot, Technoblot |
| | | | | | All horizontal gels | Komet, Sleeksub, Gelmariner, Greyhound, Greywhale, Bi-strip |
| Electrafocus | 1000 V | 100 mA | NO | Separate for voltage and current | All vertical gels | Microkin, Monokin, Minikin, Macrokin-S, Macrokin |
| | | | | | 2-D gel | Minikin, Macrokin-S |

In general it is not advisable to operate a power supply under conditions of low voltage and high current. The transistors will get hot and de-rated. This will make them vulnerable to damage and shorten their useful life.

Manufactured and Marketed by **TechResource**

188, Nagdevi Street, 2nd Floor, Mumbai 400003.
www.technosource.biz, Email: ts1@vsnl.com; Tel: (022) 28937286

ELECTRAGEL-100 Cat No. 24-00100
Output range upto 300 V, 100 mA

Features

- ✓ Dual mode (CV and CC) with auto crossover
- ✓ Two outputs (independently monitored)
- ✓ Independent digital displays for mA and volts (resolution 1 mA, 1 V)
- ✓ Can be set to any desired value within range
- ✓ Special MOSFET load sharing circuitry in parallel



Safety features

- Inbuilt constant-voltage transformer to stabilize voltage, filter out spikes and shutdown in case of frequency changes
- Outputs protected against short-circuiting
- Over-voltage trip circuit to limit electronic component damage
- Active cooling of transistors

ELECTRAPAGE-200 Cat No. 25-00200
Output range upto 500 V, 200 mA

Features

- ✓ Dual mode (CV and CC) with auto crossover
- ✓ Two outputs (independently monitored)
- ✓ Independent digital displays for mA and volts (resolution 1 mA, 1 V)
- ✓ Can be set to any desired value within range
- ✓ Special MOSFET load sharing circuitry in series

Safety features

- Inbuilt constant-voltage transformer to stabilize voltage, filter out spikes and shutdown in case of frequency changes
- Protection of outputs against short-circuiting
- Over-voltage trip circuit to limit electronic component damage
- Active cooling of transistors

ELECTRACOMET Cat No. 26-00500
Output range upto 200 V, 500 mA

Features

- ✓ Dual mode (CV and CC) with auto crossover
- ✓ Two outputs (independently monitored)
- ✓ Independent digital displays for mA and volts (resolution 1 mA, 1 V)
- ✓ Can be set to any desired value within range
- ✓ Special MOSFET load sharing circuitry

Safety features

- Protection of outputs against short-circuiting
- Over-voltage tripping circuit to limit electronic component damage
- Spike guard

ELECTRAFOCUS-100 Cat No. 28-00100
Output range upto 1000 V, 100 mA

Features

- ✓ Dual mode (CV and CC) with auto crossover
- ✓ Two outputs (independently monitored)
- ✓ Independent digital displays for mA and volts (resolution 1 mA, 1 V)
- ✓ Can be set to any desired value within range
- ✓ Special MOSFET load sharing circuitry in series and parallel

Safety features

- Protection of outputs against short-circuiting
- Over-voltage trip circuit to limit electronic component damage
- Active cooling of transistors