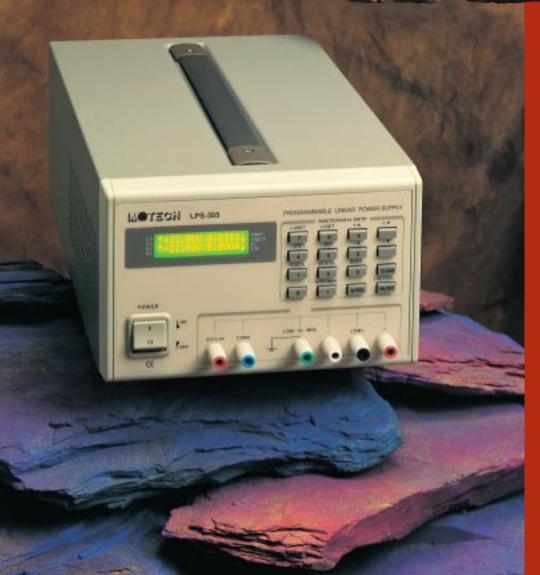
LPS300 SERIES DIGITAL LINEAR POWER SUPPLIES



KEY FEATURES:

True constant voltage and constant current performance

MOLECH

- **12** bits D/A converter accuracy
- 2x16 dot-matrix backlit LCD display, Voltage and Current are displayed simultaneously
- Software calibration
- Intelligent cooling system
- Optional RS232 output
- Beeper-overload warning and status change indication
- Up, Down key for easy setting
- Numeric keyboard for direct setting (LPS-305 only)
- Single Channel, Dual range (Autorange) (LPS-301, 302 only), Triple channel - two adjustable and one fixed output (5V or 3.3V) (LPS 304, 305 only)



SPECIFICATIONS:

| Model | LPS 301 | | LPS 302 LI | | LPS 303 | LPS 304 | | LPS 30 | 5 |
|--|--|----------|------------|-----------------|------------------|--|--------------------|---|--------------|
| MAX. OUTPUT POWER | 30 WATTS | | 60 WATTS | | 90 WATTS | 70 WATTS | | 165 WATTS | |
| OUTPUT VOLTAGE | HIGH | LOW | HIGH | LOW | | | | | |
| Output voltage | 0 to 15V | 0 to 30V | 0 to 15V | 0 to 30V | 0 to 30V | 0 to +30V/ 0 to -30V | fixed 5V | 0 to +30V/ 0 to -30V | fixed 3.3V/5 |
| Setting resolution | 10mV | 10mV | 10mV | 10mV | 10mV | 10mV | | 10mV | |
| Max. output voltage | 16V | 32V | 16V | 32V | 32V | +32V/-32V | | +32V/-32V | |
| Dual tracking | | | | | | 0 to ± 30V | | 0 to ± 30V | |
| Tracking deviation | - | | | | | ± 20mV | | ± 20mV | |
| OUTPUT CURRENT | | | | | | = 20117 | | = 20117 | |
| Output current | 0 to 2A | 0 to 1A | 0 to 4A | 0 to 2A | 0 to 2.5A | 0 to 1A/0 to -1A | 2A | 0 to +2.5A/0 to -2.5A | 3A |
| Setting resolution | 1mA | 1mA | 1mA | 1mA | 1mA | 1mA | 24 | 1mA | 54 |
| Max. output current | 2.4A | 1.2A | 4.4A | 2.4A | 3A | +1.2A/-1.2A | CL≈2.2A | +3A/-3A | CL≈3.3A |
| Dual tracking | 2.4/ | 1.2A | 4.4/ | 2.4A | JA | 0 to ± 1A | UL≈2.2A | $0 \text{ to } \pm 2.5\text{A}$ | 0L≈3.3A |
| Tracking deviation | ł | | | | | | | | |
| CONSTANT VOLTAGE CHA | DACTEDIST | 2015 | | | | ± 2mA | | ± 5mA | |
| | | 100 | | | | | | | |
| Line regulation (for change of AC \pm 10%) | 1mV | | | | | 1mV | 5 mV | 1mV | 5mV |
| Load regulation (for load change 0~100%) | 2mV | | | | | 2mV | 10mV | 2mV | 10mV |
| Ripple/noise rms (10Hz to 20MHz) | 0.5mVrms | | | | | 1.5mVrms | 2mVrms | 1.5mVrms | 2mVrms |
| Ripple peak (p-p) (10Hz to 20MHz) | 5mVp-p | | | | | 10mVp-p | 20mVp-p | 10mVp-p | 20mVp-p |
| Transient response | 200 μs Typical | | | | | 200 μs Typical | | 200 µs Typical | |
| Temperature coefficient | | | | | 100 | ppm/°C Typical | | | |
| CONSTANT CURRENT CHA | RACTERIST | TICS | | | | | | | |
| Line regulation | | | | | | | | | |
| (for change of AC ± 10%) | 5mA Typical | | | | | 15mA Typical | | 15mA Typical | |
| Load regulation (for change from short to full load) | 5mA Typical | | | | | 10mA Typical | | 10mA Typical | |
| Ripple/noise rms (10Hz to 20MHz) | 1mArms Typical | | | | | 1mArms Typical | | 1mArms Typical | |
| Ripple peak (p-p) (10Hz to 20MHz) | 5mAp-p Typical | | | 10mAp-p Typical | 5mAp-p Typical | | 5mAp-p Typical | | |
| Temperature coefficient | 200 ppm/°C Typical | | | | | | | | |
| Display | 2x16 LCD with backlit; Front Panel Status Announciator with beeper | | | | | | | | |
| Voltage Accuracy ** | ±(0.2% of rdg+2 digits) | | | | | \pm (0.2% of rdg+2 digits) | | \pm (0.2% of rdg+2 digits) | |
| Current Accuracy ** | ±(0.5% of rdg+5 digits) | | | | | \pm (0.5% of rdg+5 digits) | | \pm (0.5% of rdg+5 digits) | |
| Common-mode voltage | ± 240 Vdc | | | | | | | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Temperature ratings | | | | (| | °C, Storage -40°C to 70°C (le | ess than 80% RI | H) | |
| Dimensions (WxHxL) | 8.7 "x 3.4 "x 11.8 " | | | | | | | 8.4 "x 5.2 "x 15.7 " | |
| Weight | | | | | | ox. 12 lbs | | Approx.18 lbs | |
| Cooling method | Approx. 10 lbs Approx. 10 lbs Approx. 10 lbs Forced Air | | | | | | | | |
| Power 115V ac \pm 10% | 47 to 63 Hz,1A, 47 to 63 Hz, 2A, 47 to 63 Hz, 2A, Approx. 250W Approx. 120W Approx. 150W | | | | | 47 to 63 Hz, 2A, 47 to 63 Hz, 4A, Approx. 110W Approx. 250W | | | |
| Options | Opt 01(230 Vac; factory-installable only), Opt 02 (RS232; factory-installable only) | | | | | | | | |
| | | | | Opt 01(23 | | | , ractory-installa | ble only) | |
| Accessories | | | | | instruction manu | al, power cord, fuse | | | |

** For output less than 5% of rated output, add 5 digits to the accuracy specifications.

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