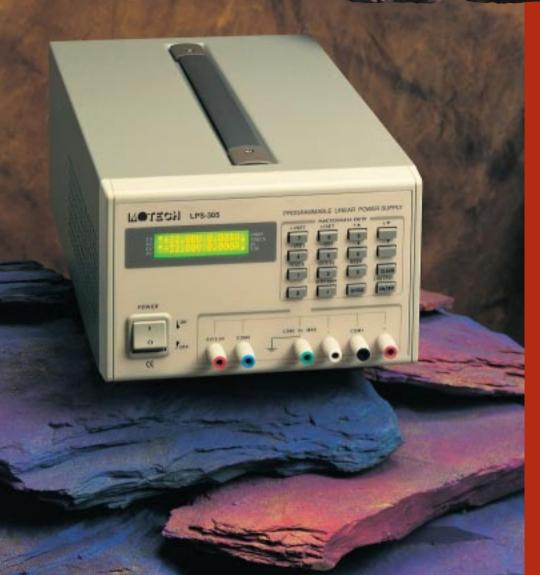
## LPS300 SERIES DIGITAL LINEAR POWER SUPPLIES



## **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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