

Data Sheet

Triple Output Linear Power Supply

LPS 505N-MO



So far most schools and laboratories are still using the old DC power supply with some disadvantages, such as LED display, lower accuracy, adjusting voltage and current by a knob. To offer a friendlier operation platform with higher accuracy, LPS 505N-MO provides user with LCD display, numerical input key pad, and better performance.

Compared with the conventional dual output powers, LPS 505N-MO offers an additional third channel output to make testing on consumer appliances and computer devices more flexible. Furthermore, the time-recorder (1 sec ~ 100 hours) allows user to set the off time of the output. This is especially helpful as a safety feature for burn-in test and electroplating applications.

Features & Benefits

- Programmable triple outputs (Third channel auto-ranging function)
- Low ripple and noise
- 100 Store memory and timer function
- Series and parallel mode
- Digital encoder knob and keypads function key
- Lock protection function
- OVP and OCP function
- Standard RS232/USB interface
- Optional: I/O Port, GPIB, LAN interface

| Model | LPS 505N-MO | |
|---|--|-----------------|
| Channel No. | CH1 & CH2 | CH3 |
| Output Voltage | 0 ~ 32V | 0 ~ 15V |
| Output Current | 0 ~ 3A | 0 ~ 5A |
| Output Power (CH3 Auto Ranging) | 96W | 30W |
| Line Regulation ±(% of output + offset) | | |
| Voltage | 0.01% + 2mV | |
| Current | 0.01% + 300uA | |
| Load Regulation ±(% of output + offset) | | |
| Voltage | ≤ 3mV | ≤ 5mV |
| Current | 0.01% + 300uA | |
| Ripple and Noise (20Hz ~ 20MHz) | | |
| Normal Mode Voltage | 700uVrms / 7mVpp | 1mVrms / 20mVpp |
| Normal Mode Current | < 1mA | < 5mA |
| Resolution | | |
| Programming | 10mV / 1mA | 10mV / 2mA |
| Readback | 10mV / 1mA | 3mV / 2mA |
| Programming Accuracy ±(% of output + offset) | | |
| Voltage | 0.05% + 20mV | 0.05% + 6mV |
| Current | 0.05% + 3mA | 0.05% + 4mA |
| Readback Accuracy ±(% of output + offset) | | |
| Voltage | 0.05% + 20mV | 0.05% + 6mV |
| Current | 0.05% + 3mA | 0.05% + 4mA |
| Temperature Coefficient per°C ±(% of output + offset) | | |
| Voltage | < 0.1% + 3mV | |
| Current | < 0.2% + 2mA | |
| Tracking Accuracy ±(% of output + offset) | | |
| Voltage | 0.1% + 40mV | |
| Transient Response Time | < 50uS | |
| Stability, constant output & temperature ±(% of output + offset), 8hrs | | |
| Voltage | < 0.2% + 2mV | |
| Current | < 0.1% + 1mA | |
| Voltage Programming Speed | | |
| Rising Time at Full Load | 3mSec | |
| Rising Time at No Load | 3mSec | |
| Falling Time at Full Load | 8mSec | |
| Falling Time at No Load | 250mSec | |
| General | | |
| AC Line Input Voltage Ranges | 115 / 230 VAC ± 10% (47Hz ~ 63Hz) | |
| Temperature Ratings | Operating(0°C ~ 40°C) · Storage(- 10°C ~ 70°C) | |
| Common-Mode Voltage | ±240Vdc | |
| Dimensions (W×H×D)mm | (216 × 135 × 432) | |
| Weight | 9kg | |