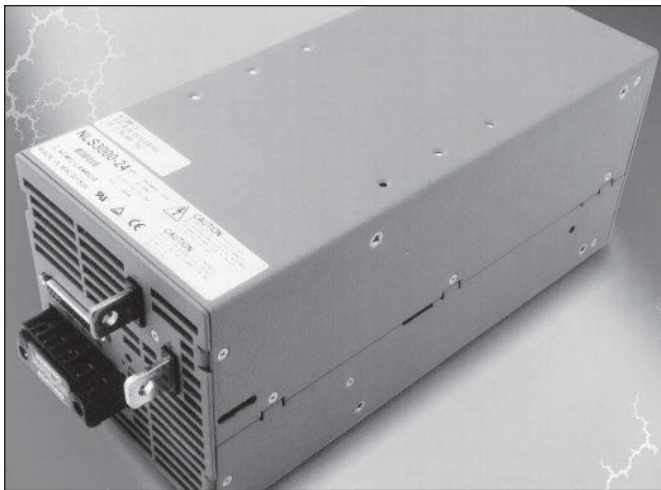


# NLS3000 SERIES

AC/DC Single Output: 24V 3000 Watts



## Features

- Wide input 180~264VAC
- 3000 watts output power
- Zero load operation
- Power factor corrected 0.99
- Meets EN61000-3-2
- Safety to UL1950, EN60950
- CE marked
- EMC to EN55022 Level A
- Short circuit protection
- Over voltage and over current protection
- AC Fail and DC Fail signals
- Compact design 127 x 127 x 308mm

| MODEL              | Output |      | Power<br>W |
|--------------------|--------|------|------------|
|                    | V      | A    |            |
| NLS3000 - 24       | 24V    | 125A | 3Kw        |
| NLS3000 - 28 - DPC | 28V    | 107A | 3Kw        |

Note:  
Model NLS3000 - 28 - DPC, with isolation diode for N+1 redundancy and power share feature.

Instruction Manual/ Application Notes are available from our website



## Specifications

|                         |  |
|-------------------------|--|
| INPUT :                 | 240 VAC (180~264)  |
| FREQUENCY:              | 47 ~ 63Hz  |
| INPUT CURRENT:          | 21A @ FL   |
| OUTPUT VOLTAGE:         | 24 VDC (21.6~27.5 adjustment)  |
| OUTPUT CURRENT:         | 125A   |
| MINIMUM LOAD:           | Zero   |
| EFFICIENCY:             | 83.5% at 230V and FL   |
| INRUSH CURRENT:         | 30A cold start   |
| POWER FACTOR:           | 0.99   |
| HARMONICS:              | EN61000-3-2  |
| RIPPLE & NOISE:         | 1% pk-pk (Bandwidth 20MHz)   |
| LINE REGULATION:        | ±0.2% at constant load   |
| LOAD REGULATION:        | ±0.5% 0-100% with constant input   |
| TEMP CO-EFFICIENT:      | 0.03% per°C  |
| OVERCURRENT PROTECTION: | Constant current limiting with auto recovery, set at approx. 105% output   |
| OVERVOLTAGE PROTECTION: | Set 28-32V, output shutdown.<br>To reset: recycle AC input after 30 sec.   |
| REMOTE SENSE:           | Yes  |
| OVERTEMP. PROTECTION:   | Yes, output shutdown.<br>To reset: recycle AC input after 30 sec.  |
| TURN ON TIME:           | Typically 1 sec.   |
| HOLD-UP TIME:           | Typically 15ms.  |
| REMOTE ON/OFF:          | Yes, 0.05V will inhibit the supply.<br>≥2V or open, will enable the supply.<br>Logic return ref to -VE output.<br>TTL low is disable and high is enable. |
| POWER FAIL:             | Upon loss of AC power, signal goes from high to low after 5ms before output fails to 85%.<br>TTL low is fault and high is OK.                            |
| OUTPUT POWER GOOD:      | Provides output logic high signal.<br>TTL low is fail and high is OK.  |
| OUTPUT CURRENT MONITOR: | Reference to -VE output. Analog signal 0.5V is proportional to 0-100% load, ±10% accuracy.   |
| OPERATING TEMPERATURE:  | 0°C to +50°C at FL   |
| COOLING:                | Internal forced air.   |
| VIBRATION:              | 10-55Hz (sweep for 1 min) 14.7 m/s <sup>2</sup> constant, X, Y, Z, 1 hour  |
| SHOCK:                  | Less than 147.1m/s <sup>2</sup>  |
| DIMENSIONS & WEIGHT:    | 127 x 127 x 308mm incl. terminals. 5.4kg (W x H x D)   |