# AC ➡ DC SWITCHING POWER SUPPLY

# LTP13K0 SERIES

**All the patents are held accountable counterfeiting.**

## Features

DIMENSIONS: 360(L) x 163(W) x 73.5(H)mm
Weights: 3480g

- **" Output Voltage Monitor " Display**
- **Fan speed control**
- **100% burn-in test**
- **Burn-in power factor corrector**
- **2 years Warranty**
- **Output modify range: 24V~380VDC**
- **Split rail & Series connection possible**

## General specifications

### *INPUT*

| | |
|---|---|
| **Input range** | 3 phase input 340~450VAC/ 480~640VDC |
| **Input frequency** | 47~63Hz |
| **Inrush current (25° C)** | 15A/380VAC |
| **Power factor** | 82% Min/380VAC |

### *OUTPUT*

| | |
|---|---|
| **Hold-up time** | 10ms |
| **Short protection** | Re-power on to recover |

## Detail specifications

***3000 Watts***

| MODEL | O/P Volt Adj. ±% | Load(Current) 1 | | | Ripple & Noise 4 | Line REG. 2 | Load REG. 3 | Efficiency 5 | O.V.P. Trip point |
|---|---|---|---|---|---|---|---|---|---|
| | | Min. | Rated | Max. | | | | | |
| LTP13K0-36CDA | V1: +36V ±10% | 0A | 84A | 84A | 360mVp-p | ±1% | ±1% | 95% Min. | 47.8 ~ 53.2V |
| LTP13K0-48CDA | V1: +48V ±10% | 0A | 62.5A | 62.5A | 480mVp-p | ±1% | ±1% | 96% Min. | 54 ~ 60V |
| LTP13K0-72CDA | V1: +72V ±10% | 0A | 42A | 42A | 720mVp-p | ±1% | ±1% | 96.3% Min. | 82 ~ 93.6V |
| LTP13K0-110CDA | V1: +110V ±10% | 0A | 27.3A | 27.3A | 1100mVp-p | ±1% | ±1% | 96.3% Min. | 126 ~ 143V |
| LTP13K0-150CDA | V1: +150V ±10% | 0A | 20A | 20A | 1500mVp-p | ±1% | ±1% | 96.3% Min. | 172 ~ 195V |

### CE Standards

EN 55032, EN 55035,
EN 61000-3-2, EN 61000-3-3,
(EN 61000-4-2, EN 61000-4-3,
EN 61000-4-4, EN 61000-4-5,
EN 61000-4-6, EN 61000-4-8,
EN 61000-4-11)
LVD: EN 62368-1

### Safety Standards

UL 62368 Meet

CE Meet

### Environments

| | |
|---|---|
| **Operating Temperature** | -15 ~ 50°C, Ambient |
| **Operating Humidity** | 20 ~ 90% RH, No Condensing |
| **Storage Temperature** | -20 ~ 85°C, Ambient |
| **Vibration** | 2G, 10~500Hz, 3 axes |

***NOTE:***

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 380VAC input.
4. Ripple & Noise are measured with 20MHz oscilloscope at 380VAC by using a 20cm long 12" twisted pair-wire with a 0.1uF/630V metal capacitor & a 47uF electrolytic capacitor parallel on the test point.
5. Efficiency is measured at rated load and 380VAC input.
6. Hold-up time is measured at rated load and 380VAC input.
7. When used in a three-phase, two-wire system at 340–450 VAC, the power factor can reach a minimum of 0.95.
8. Output Voltage Adjustable is measured on 5% of rated load.
9. Reign Power reserve the right to change specifications at any time without notice.

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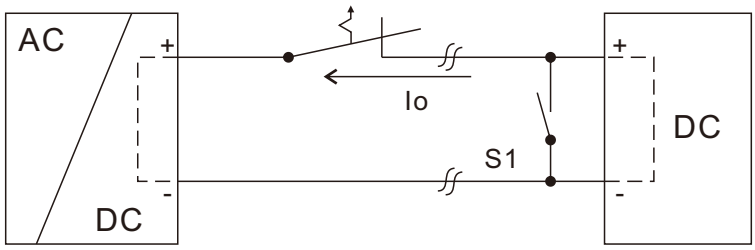
## Reverse Power Feed Load

Loads such as motors and inductive sensors may feed voltage back into the power supply during deceleration. This characteristic is also referred to as resistance or immunity to the backfeed voltage generated by reverse electromotive force (EMF).
The power supply is designed to withstand voltage fed back from the load and will not cause a primary failure, regardless of whether the power supply is in the ON or OFF state.
The functional diagram is shown below:




| Table of Max. Feedback Voltage | |
|---|---|
| Model | Max. Feedback Volt. |
| LTP13K0-36CDA | 50VDC |
| LTP13K0-48CDA | 63VDC |

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## Mechanical Details

**CASE NO. : LTP3K0**
**UNIT : mm**
**DIMENSION : 360(L)*163(W)*73.5(H)**
**MATERIAL : ALUMINUM**

## Panel Designation

| Symbol | Description |
|---|---|
| L1~L3 | Line Terminal Of AC Input (No Polarity At DC Input) |
| FG | Grounding (Earth) |
| V+ | DC Positive Output Terminal |
| V- | DC Ground Output Terminal |
| V adj. | Potentiometer For Output Voltage |

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