

75-150W

## CLZ Series

DC/DC

## Features

- Industry standard 1/4 brick
- Full load efficiency up to 89%@5V
- 1500VDC isolation strength
- High efficiency, design for high reliability
- High conversion efficiency
- Current limiting & short circuit protection, with self recovery



## Input Characteristic

|               |        |           |
|---------------|--------|-----------|
| Voltage Range | 24 VDC | 18-36 VDC |
|               | 48 VDC | 36-72 VDC |

Reverse Protection      Connect Fuse Outside

## Output Characteristic

|                            |            |
|----------------------------|------------|
| Voltage Set-point Accuracy | ± 1%       |
| Output Voltage Range       | ± 10%      |
| Line Regulation            | ± 0.2%     |
| Load Regulation            | ± 0.4%     |
| Temperature Coefficient    | ± 0.01%/°C |
| Output Current Limiting    | 120%(Typ)  |
| Dynamic Response           | 400µs      |
| Output Current             | 10-30A     |
| Output Voltage             | 1.8-48V    |
| Power                      | 75-150W    |

## General Characteristic

|                      |          |     |
|----------------------|----------|-----|
| Switching Frequency  | 250      | KHz |
| Isolation Resistance | 200      | M Ω |
| MTBF                 | >1000000 | h   |
| Isolation Voltage    |          |     |
| Input-Output         | >1500    | VDC |
| Input-Case           | >1050    | VDC |
| Output-Case          | >500     | VDC |

## Environmental Characteristics

|                     |                            |
|---------------------|----------------------------|
| Case Temperature    | (Industry) -25 - +85 °C    |
|                     | (Military I) -40 - +85 °C  |
|                     | (Military II) -55 - +85 °C |
| Storage Temperature | (Industry) -45 - +105 °C   |
|                     | (Military) -55 - +105 °C   |

## Heat Characteristic

| Cooling          | Thermal Resistance | With Heat Sink |
|------------------|--------------------|----------------|
| Breeze of Nature | 6.67°C/W           | 4.66°C/W       |
| 0.5M/S           | 5.56°C/W           | 3.89°C/W       |
| 1M/S             | 4.15°C/W           | 2.90°C/W       |
| 1.5M/S           | 3.02°C/W           | 2.11°C/W       |
| 2M/S             | 2.50°C/W           | 1.75°C/W       |

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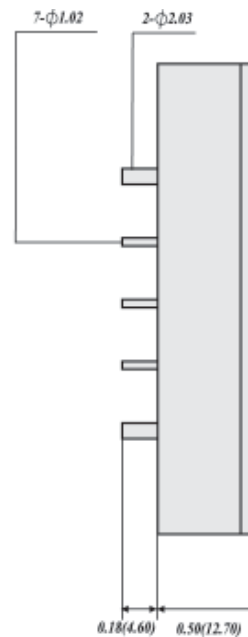
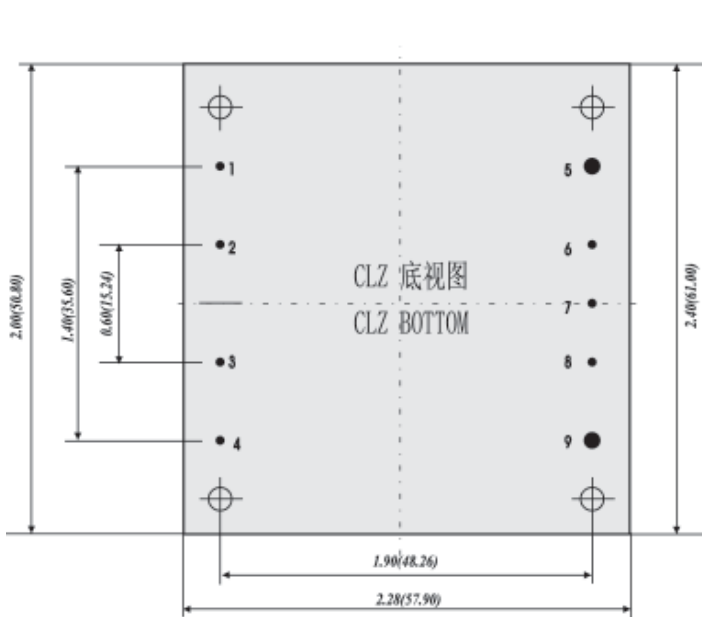
DC/DC

## Models

| Input voltage (Vdc) | Input Range | Output voltage (Vdc) | Output current (A) | Ripple and noise pk-pk(mv) | Efficiency Typical | Models       |
|---------------------|-------------|----------------------|--------------------|----------------------------|--------------------|--------------|
| 24                  | 18-36       | 05                   | 15                 | 50                         | 88%                | CLZ75-24S05  |
| 24                  | 18-36       | 12                   | 8.33               | 120                        | 86%                | CLZ100-24S12 |
| 24                  | 18-36       | 15                   | 6.67               | 150                        | 89%                | CLZ100-24S15 |
| 48                  | 36-72       | 05                   | 15                 | 50                         | 88%                | CLZ75-48S05  |
| 48                  | 36-72       | 12                   | 8.33               | 120                        | 86%                | CLZ100-48S12 |
| 48                  | 36-72       | 05                   | 30                 | 50                         | 89%                | CLZ150-48S05 |

Only typical models listed. If you need other model, please contact us for costum models

## Mechanical drawing and pin definition



单位 (Unit) :Inch(mm)

| 引脚 PIN | 单路 SING |
|--------|---------|
| 1      | -Vin    |
| 2      | CASE    |
| 3      | REM     |
| 4      | +Vin    |
| 5      | -Vo     |
| 6      | -SENSE  |
| 7      | TRIM    |
| 8      | +SENSE  |
| 9      | +Vo     |