

Isolated DC-DC Converter

Typical Efficiency 80%

SC Protection (Auto Recover)

Can Be Dual (+/-) Output

Low Ripple, Metal Case Shield

Remote Control and Trim Function



Input Characteristic

Default Input Voltage Range (2:1)

|      |           |
|------|-----------|
| 5V   | 4.5~9VDC  |
| 12V  | 9~18VDC   |
| 24V  | 18~36VDC  |
| 48V  | 36~72VDC  |
| 110V | 74~144VDC |

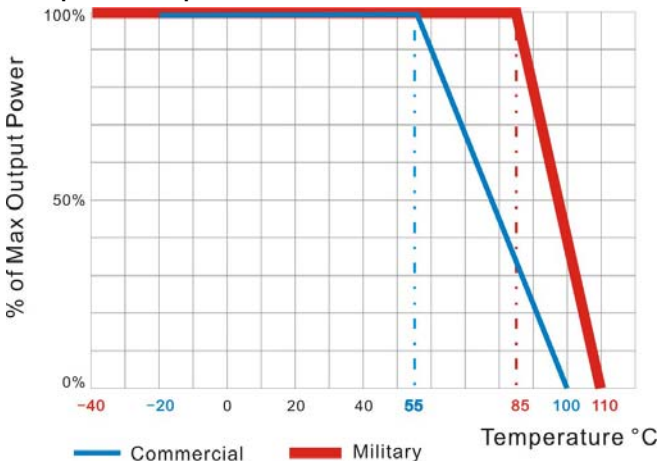
Wide Input Voltage Range (4:1)

|     |          |
|-----|----------|
| 12V | 10~36VDC |
| 48V | 18~72VDC |

Input Reverse Protection: No

Input Under Voltage Protection: Yes

Temperature performance:



Output Characteristic

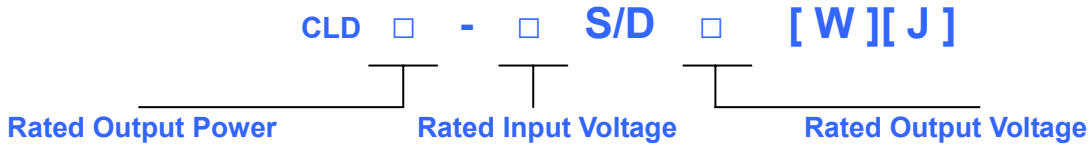
|                           |                                  |
|---------------------------|----------------------------------|
| Typical Efficiency:       | 80%                              |
| Ripple p-p:               | 1% of output voltage (MAX 200mV) |
| Load Regulation:          | 0.5%                             |
| Line Regulation :         | 0.2%                             |
| Dynamic response:         | ± 4.0/500us%                     |
| Short-circuit Protection: | yes                              |
| Start Time Delay:         | ≤200mS                           |

Other info

|                               |  |
|-------------------------------|--|
| Switching frequency:          | 300KHz ± 30 KHz  |
| Operating temperature:        | Industrial -25°C ~ +55°C<br>Military -40°C ~ +85°C                             |
| Max Allowed Case Temperature: | Industrial 100°C<br>Military 110°C   |
| Storage Temperature:          | Industrial -40°C ~ +105°C<br>Military -55°C ~ +120°C                           |
| Storage Humidity:             | 20~90%   |
| Isolation Voltage:            | Input - Output 500/1000 VDC ≤ 0.5mA/1min *<br>Input - Case 500Vdc ≤ 0.5mA/1min |
| MTBF:                         | 200000Hrs  |
| Case Material:                | Metal  |
| Remote ON/OFF:                | ON REM linked to high elec level (+3.5V~Vin+)<br>OFF REM linked to GND         |

Please specify when order

Ordering Information:

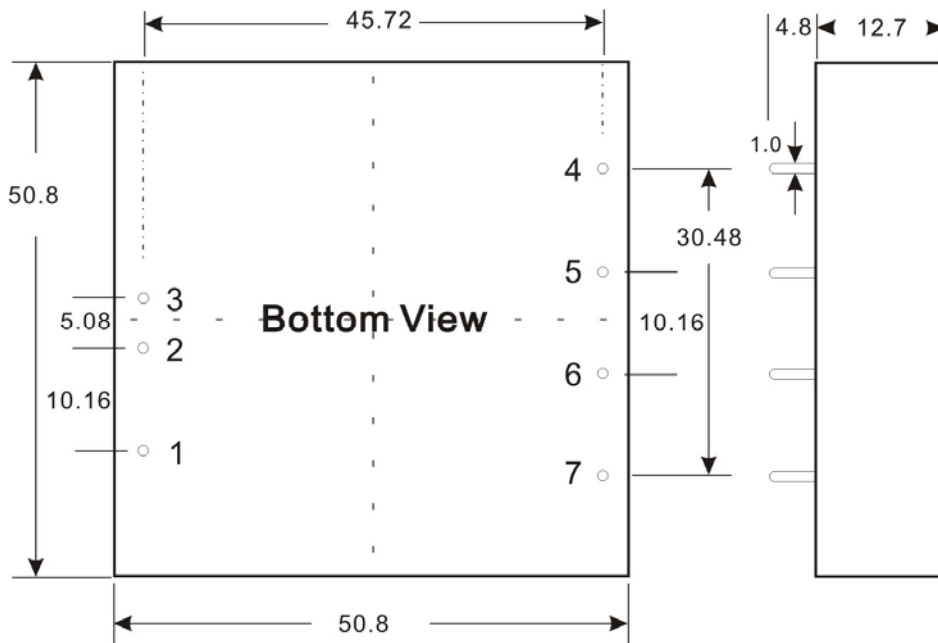


**Note:** S – Single Output    D – Dual Outputs  
 J – Military    W - 4:1 input    (Leave it empty for Industrial normal input range)

Example:

| Input           | Output | Max Output Current / Power | Model        |
|-----------------|--------|----------------------------|--------------|
| 12V (18~36VDC)  | 24V    | 1.25A (30W)                | CLD30-12S24  |
| 24V (18~36VDC)  | 12V    | 2.5A (30W)                 | CLD30-24S12  |
| 24V (18~36VDC)  | 24V    | 1.05A (25W)                | CLD25-24S24  |
| 12V (9~18VDC)   | 5V     | 5A (25W)                   | CLD25-12S05  |
| 5V (4.5~9VDC)   | +/-5V  | +/-3A (30W)                | CLD30-05D05  |
| 24V (9~36VDC) W | 12V    | 2A (24W)                   | CLD24-24S12W |

Dimensions:



| Pin | Single | Dual   |
|-----|--------|--------|
| 1   | REM    | REM    |
| 2   | Vin -  | Vin -  |
| 3   | Vin +  | Vin +  |
| 4   |        | Vout + |
| 5   | Vout + | COM    |
| 6   | GND    | Vout - |
| 7   | TRIM   | TRIM-  |

Unit: mm

NOTE: Size may change slightly to meet military grade or isolation requirements etc.