

## Isolated DC-DC Converter

Typical Efficiency 80%

SC Protection (Auto Recover)

Low Ripple, Metal Case Shield

Broadband Noise Filter at Input



RoHS

CE

### Input Characteristic

Default Input Voltage Range (2:1)

|      |            |
|------|------------|
| 5V   | 4.5~9VDC   |
| 12V  | 9~18VDC    |
| 24V  | 18~36VDC   |
| 48V  | 36~72VDC   |
| 110V | 80~170VDC  |
| 300V | 200~400VDC |

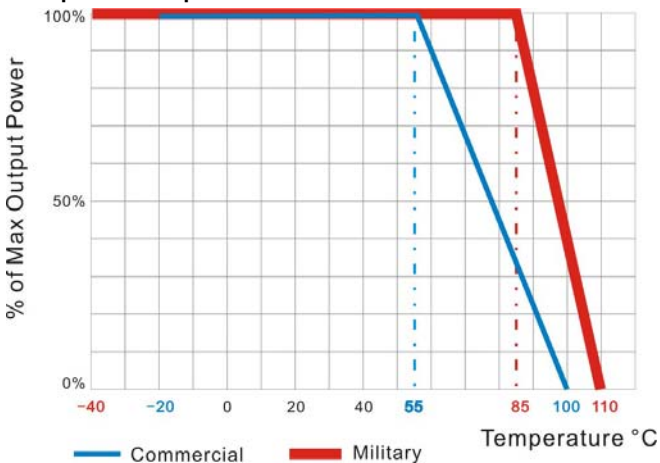
Wide Input Voltage Range (4:1)

|     |          |
|-----|----------|
| 12V | 10~36VDC |
|-----|----------|

Input Reverse Protection: No

Input Under Voltage Protection: Yes

Temperature performance:



### Output Characteristic

|                           |                                  |
|---------------------------|----------------------------------|
| Typical Efficiency:       | 80%                              |
| Ripple p-p:               | 1% of output voltage (MAX 400mV) |
| Load Regulation:          | 0.4%                             |
| Line Regulation :         | 0.2%                             |
| Dynamic response:         | ± 4.0/500us%                     |
| Short-circuit Protection: | yes                              |
| Start Time Delay:         | ≤ 200mS                          |

### Other info

Switching frequency: 180KHz ± 20 KHz

Operating temperature:

|            |               |
|------------|---------------|
| Industrial | -25°C ~ +55°C |
| Military   | -40°C ~ +85°C |

Max Allowed Case Temperature:

|            |       |
|------------|-------|
| Industrial | 100°C |
| Military   | 110°C |

Storage Temperature:

|            |                |
|------------|----------------|
| Industrial | -40°C ~ +105°C |
| Military   | -55°C ~ +120°C |

Storage Humidity:

20~90%

Isolation Voltage:

|                |                         |
|----------------|-------------------------|
| Input - Output | 1500 VDC ≤ 0.5mA/1min * |
| Input - Case   | 1000Vdc ≤ 0.5mA/1min    |

MTBF:

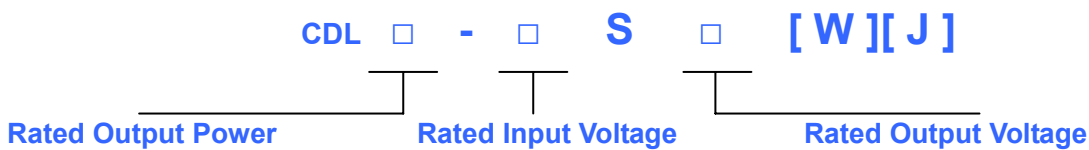
200000Hrs

Case Material:

Metal

Remote ON/OFF: Implement if needed

Ordering Information:

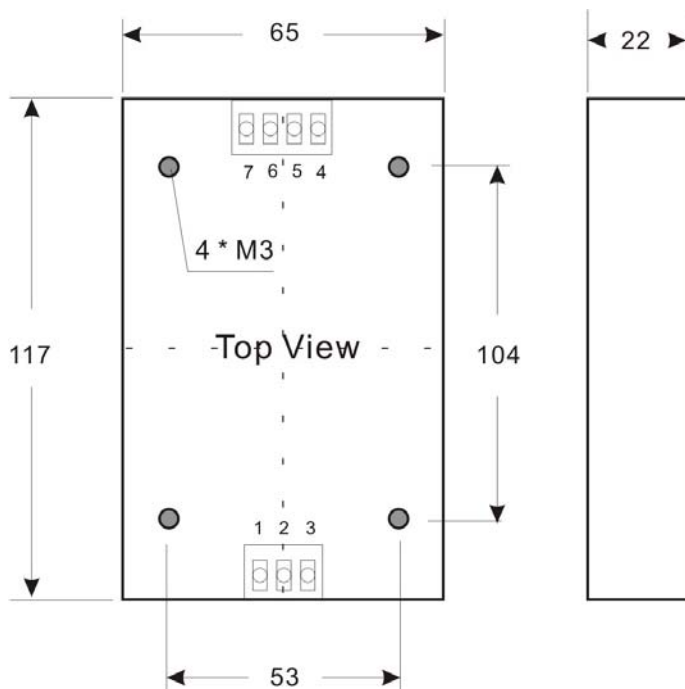


**Note:** S – Single Output  
 J – Military    W - 4:1 input    (Leave it empty for Industrial normal input range)

**Example:**

| Input           | Output | Max Output Current / Power | Model        |
|-----------------|--------|----------------------------|--------------|
| 12V (18~36VDC)  | 24V    | 5A (120W)                  | CDL120-12S24 |
| 24V (18~36VDC)  | 12V    | 6A (72W)                   | CDL72-24S12  |
| 24V (18~36VDC)  | 24V    | 4A (96W)                   | CDL96-24S24  |
| 12V (9~18VDC)   | 5V     | 20A (100W)                 | CDL100-12S05 |
| 18V (9~36VDC) W | 12V    | 8A (96W)                   | CDL96-18S12W |

**Dimensions:**



| Pin | Single | Dual  |
|-----|--------|-------|
| 1   | Vin -  | Vin - |
| 2   | Vin +  | Vin + |
| 3   | REM    | REM   |
| 4   | Vout - | Vo1 + |
| 5   | Vout - | Vo1 - |
| 6   | Vout + | Vo2 - |
| 7   | Vout + | Vo2 + |

Unit: mm