

## Isolated DC-DC Converter

Typical Efficiency 80%

SC Protection (Auto Recover)

Low Ripple( $\pm 1\%$ ), Metal Case Shield

Broadband Noise Filter at Input



### Input Characteristic

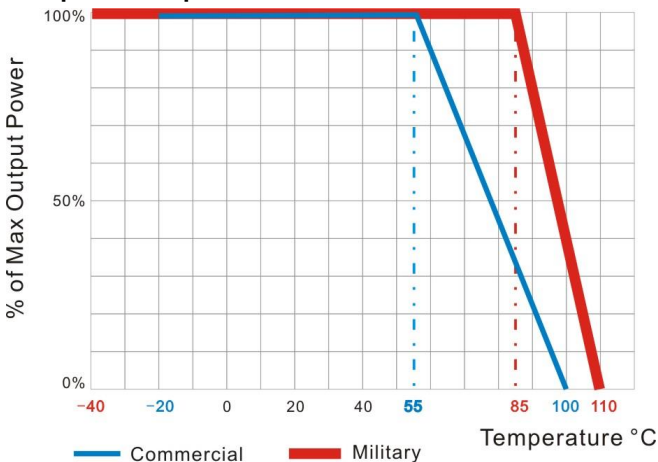
Default Input Voltage Range (2:1)

12V	9~18VDC
24V	18~36VDC
48V	36~72VDC
110V	80~170VDC

Wide Input range 4:1 (contact [sales@current-logic.com](mailto:sales@current-logic.com) For more info)

Input Reverse Protection: No  
Input Under Voltage Protection: Yes

### Temperature performance:



### Output Characteristic

Typical Efficiency:	83%
Ripple p-p:	1% of output voltage (MAX 400mV)
Load Regulation:	0.4%
Line Regulation :	0.2%
Temperature Regulation:	$\leq 0.05\%/^{\circ}\text{C}$
Dynamic response:	$\pm 4.0/500\mu\text{s}$
Short-circuit Protection:	yes
Start Time Delay:	$\leq 200\text{ms}$

### Other info

Switching frequency: 180KHz  $\pm$  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:

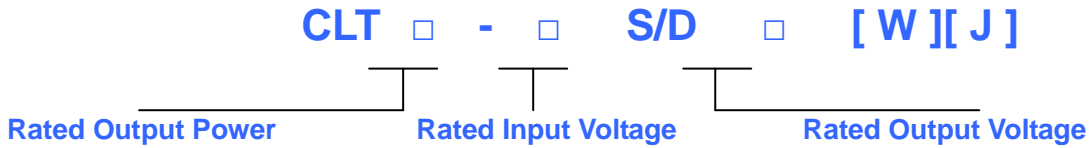
Input - Output	1500 VDC $\leq 0.5\text{mA}/1\text{min}$ *
Input - Case	500Vdc $\leq 0.5\text{mA}/1\text{min}$

MTBF: 200000Hrs

Case Material: Metal

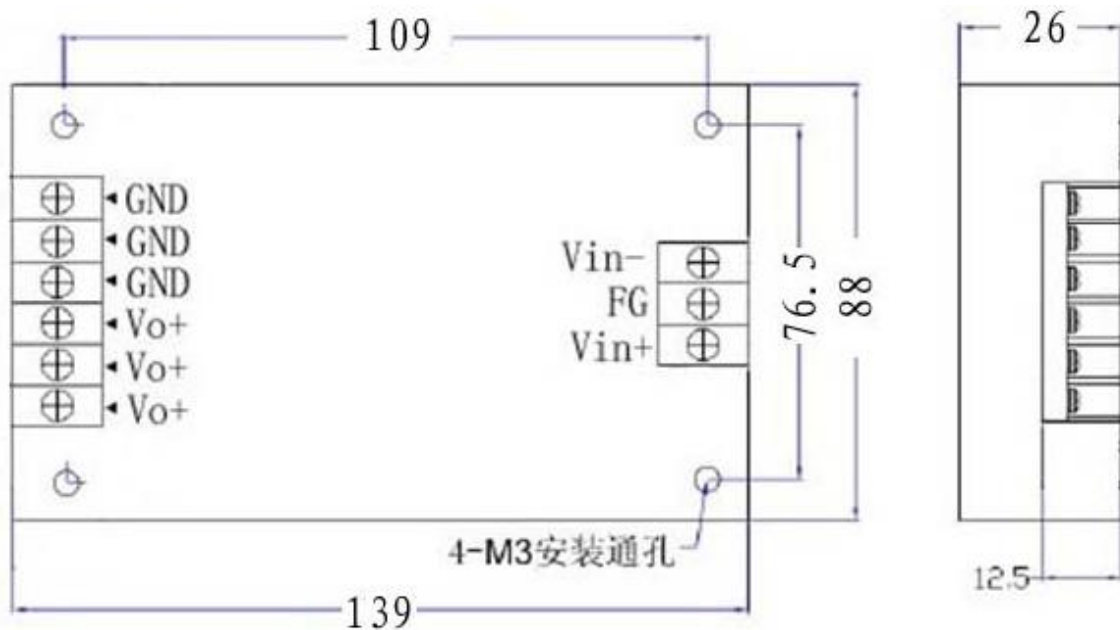
Remote ON/OFF: Implement if needed

**Ordering Information:**



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

**Dimensions:**



Pin definition may change according to different input/output.

Unit: mm

**Part number list (150W):**

Input voltage (V)	Input voltage <Range V>	Output voltage (V)	Output current (A)	Efficiency	Part Number
12	9~18	5	30	81%	<b>CLT150-12S05</b>
12	9~18	12	12.5	83%	<b>CLT150-12S12</b>
12	9~18	24	6.25	85%	<b>CLT150-12S24</b>

<b>24</b>	18~36	5	30	81%	<b>CLT150-24S05</b>
<b>24</b>	18~36	12	12.5	83%	<b>CLT150-24S12</b>
<b>24</b>	18~36	24	6.25	85%	<b>CLT150-24S24</b>
<b>48</b>	36~72	5	30	81%	<b>CLT150-48S05</b>
<b>48</b>	36~72	12	12.5	83%	<b>CLT150-48S12</b>
<b>48</b>	36~72	24	6.25	85%	<b>CLT150-48S24</b>
<b>110</b>	72~144	5	30	81%	<b>CLT150-110S05</b>
<b>110</b>	72~144	12	12.5	83%	<b>CLT150-110S12</b>
<b>110</b>	72~144	24	6.25	85%	<b>CLT150-110S24</b>
<b>12</b>	9~18	±5	±15	81%	<b>CLT150-12D05</b>
<b>12</b>	9~18	±12	±6.25	83%	<b>CLT150-12D12</b>
<b>12</b>	9~18	±24	±3.1	85%	<b>CLT150-12D24</b>
<b>24</b>	18~36	±5	±15	81%	<b>CLT150-24D05</b>
<b>24</b>	18~36	±12	±6.25	83%	<b>CLT150-24D12</b>
<b>24</b>	18~36	±24	±3.1	85%	<b>CLT150-24D24</b>
<b>48</b>	36~72	±5	±15	81%	<b>CLT150-48D05</b>
<b>48</b>	36~72	±12	±6.25	83%	<b>CLT150-48D12</b>
<b>48</b>	36~72	±24	±3.1	85%	<b>CLT150-48D24</b>
<b>110</b>	72~144	±5	±15	81%	<b>CLT150-110S05</b>
<b>110</b>	72~144	±12	±6.25	83%	<b>CLT150-110S12</b>
<b>110</b>	72~144	±24	±3.1	85%	<b>CLT150-110S24</b>

Only frequently used types are listed, for special input/output, please contact [sales@current-logic](mailto:sales@current-logic)