

Isolated DC-DC Converter

Typical Efficiency 80%

SC Protection (Auto Recover)

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

Broadband Noise Filter at Input



RoHS

CE

Input Characteristic

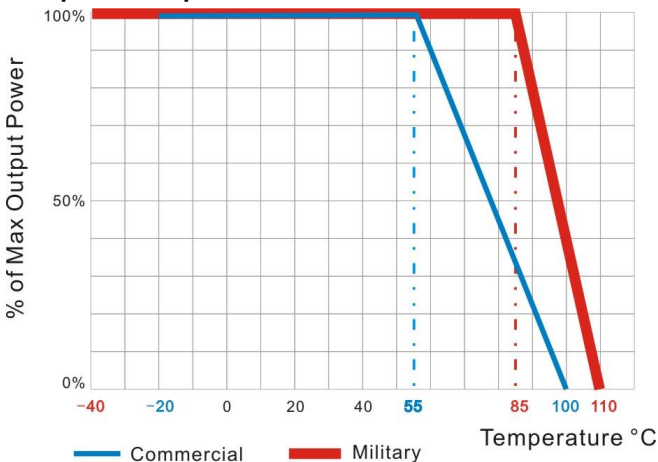
Default Input Voltage Range (2:1)

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

Wide Input range 4:1 (contact sales@current-logic.com 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:

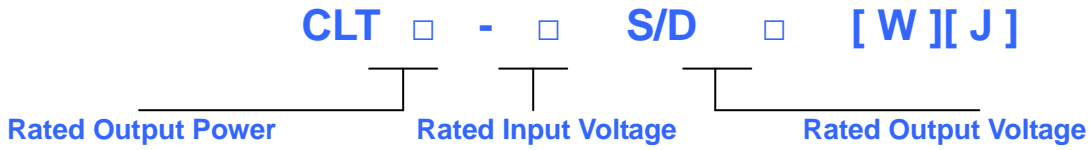
200000Hrs

Case Material:

Metal

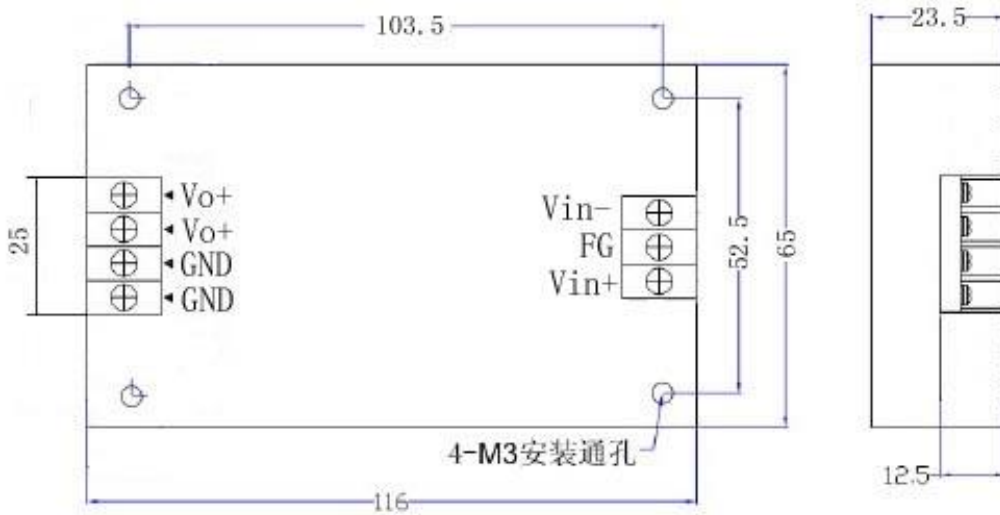
Remote ON/OFF: Implement if needed

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:



Unit: mm

Part number list (100W):

Input voltage (V)	Input voltage<Range V>	Output voltage(V)	Output current(A)	Efficiency	Part Number
12	9~18	5	20	81%	CLT100-12S05
12	9~18	12	8.4	83%	CLT100-12S12
12	9~18	24	4.2	85%	CLT100-12S24

24	18~36	5	20	81%	CLT100-24S05
24	18~36	12	8.4	83%	CLT100-24S12
24	18~36	24	4.2	85%	CLT100-24S24
48	36~72	5	20	81%	CLT100-48S05
48	36~72	12	8.4	83%	CLT100-48S12
48	36~72	24	4.2	85%	CLT100-48S24
110	72~144	5	20	81%	CLT100-110S05
110	72~144	12	8.4	83%	CLT100-110S12
110	72~144	24	4.2	85%	CLT100-110S24
12	9~18	±5	±10	81%	CLT100-12D05
12	9~18	±12	±4.2	83%	CLT100-12D12
12	9~18	±24	±2.1	85%	CLT100-12D24
24	18~36	±5	±10	81%	CLT100-24D05
24	18~36	±12	±4.2	83%	CLT100-24D12
24	18~36	±24	±2.1	85%	CLT100-24D24
48	36~72	±5	±10	81%	CLT100-48D05
48	36~72	±12	±4.2	83%	CLT100-48D12
48	36~72	±24	±2.1	85%	CLT100-48D24
110	72~144	±5	±10	81%	CLT100-110S05
110	72~144	±12	±4.2	83%	CLT100-110S12
110	72~144	±24	±2.1	85%	CLT100-110S24

Only frequently used types are listed, for special input/output, please contact sales@current-logic