

C 150

C 150 Series AC/DC Converters

Total power 150 Watts
Input voltages AC 90~132V (or DC120~170V)
 AC 170~264V (or DC220~340V)
#of outputs Single output



SPECIAL FEATURES

- Small, compact size
- Surface mounting technology
- High efficiency
- Selected input voltage
- Built - in EMI filter
- Inrush current limit
- Adjustable output voltage (Output1)
- Output over current protection
- Output over voltage protection
- Over temperature protection
- Low output ripple & noise
- Isolated output
- 2 Years warranty

ENVIRONMENTAL

- Operating temperature range -10℃~60℃
- Storage temperature range -20℃~70℃
- Humidity 20%~90%RH
- Vibration 10~55Hz at 2G 3minutes period
- Impact 20G for 11ms, once on each X, Y and Z-axis
- Cooling method Natural air
- MTBF 1.6×10⁶hrs
- Safety meets EN 60950
 UL 60950 / CSA C22.2
- Noise meets CISPR22-B
 FCC class B

ELECTRICAL SPECIFICATIONS

INPUT

- Voltage **CS 150L** - AC90~132V (or DC 120~170V)
CS 150 - AC 170~264V (or DC 220~340V)
- Current 1.8A max. (**CS 150**) / 3.3A max. (**CS 150L**)
- Frequency 47~440Hz max. (50~60Hz typ.)
- Efficiency 80% min.
- Inrush current (at cold start) 20A max. @ 110VAC (**CS 150L**) / 40A max. @ 220VAC (**CS 150**)
- Leakage current 0.5mA max. @ 110VAC (**CS 150L**) / 0.75mA max. @ 220VAC (**CS 150**)

OUTPUT

- Voltage adj. Range ±10% typ.
- Ripple and noise 1% max.
- Line regulation ±1% max.
- Load regulation ±1% max.
- Dynamic load regulation ±3% max.
- Temperature drift ±1% typ.
- Rising time 100ms max.
- Holding time 17ms min.

PROTECTION CIRCUIT

- Over current protection over 105% of rating (Auto-restart)
- Over voltage protection 115~140% of rating (Latch-up mode)
- Over temperature protection 75℃ min. (Latch-up mode)

ELECTRICALLY ISOLATED

- Input - Output AC 3kV, 1minute, 10mA / DC 500V, 100MOhms min.
- Input - FG AC 2kV, 1minute, 10mA / DC 500V, 100MOhms min.
- Output - FG AC 0.5kV, 1minute, 10mA / DC 500V, 70MOhms min.

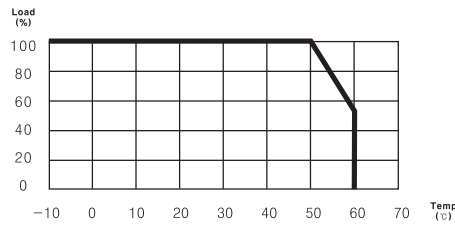
Ordering Information

Input	Output	Maximum Power	Ripple & Noise max	Efficiency Typ.	model Number
AC 90~132V (or DC 120~170V)	+3.3V@30.0A	99.0W	80mVp-p	80%	CS150L-3R3 CS150L-5 CS150L-12 CS150L-15 CS150L-24 CS150L-48
	+5.0V@30.0A	150.0W	100mVp-p	81%	
	+12.0V@12.5A	150.0W	120mVp-p	83%	
	+15.0V@10.0A	150.0W	150mVp-p	84%	
	+24.0V@6.3A	151.2W	200mVp-p	86%	
	+48.0V@3.2A	153.6W	300mVp-p	86%	
AC 170~264V (or DC 220~340V)	+3.3V@30.0A	99.0W	80mVp-p	81%	CS150-3R3 CS150-5 CS150-12 CS150-15 CS150-24 CS150-48
	+5.0V@30.0A	150.0W	100mVp-p	82%	
	+12.0V@12.5A	150.0W	120mVp-p	85%	
	+15.0V@10.0A	150.0W	150mVp-p	85%	
	+24.0V@6.3A	151.2W	200mVp-p	87%	
	+48.0V@3.2A	153.6W	300mVp-p	87%	

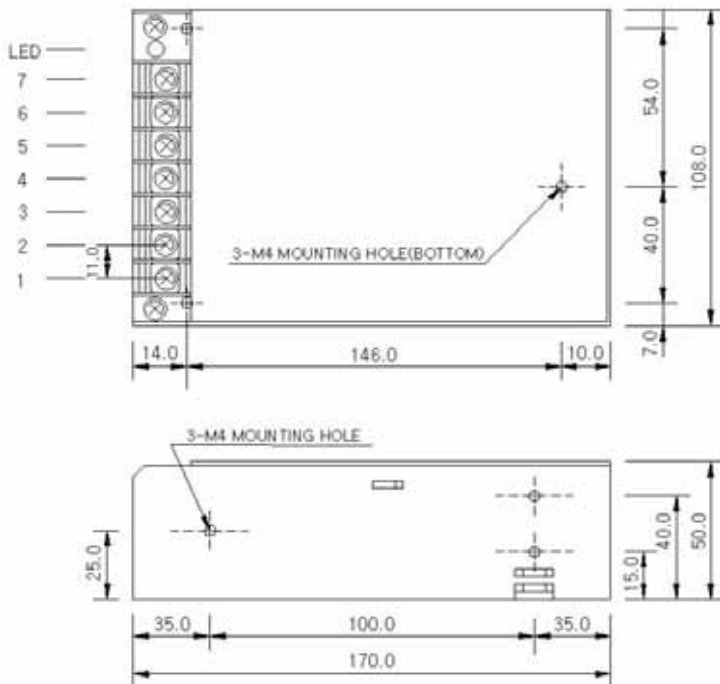
Pin assignments

Connector	Single
CN 1	1. AC(N)
	2. AC(L)
	3. FG
	4. -V
	5. -V
	6. +V
	7. +V

Derating curve



Dimensions



NOTES

1. All dimensions are mm.
2. Weight : 850g or less (single)
3. Mounting holes(6) for M4 screw, which should not enter the supply surface by more than 3.5mm.