

# C 75

## C 75 Series AC/DC Converters

**Total power** 75 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 .....  $1.9 \times 10^6$  hrs
- Safety ..... meets EN 60950  
 UL 60950 / CSA C22.2
- Noise ..... meets CISPR22-B  
 FCC class B

### ELECTRICAL SPECIFICATIONS

**INPUT**

- Voltage ..... **CS 75L** - AC90~132V (or DC 120~170V)  
**CS 75** - AC 170~264V (or DC 220~340V)
- Current ..... 0.9A max. (**CS 75**) / 1.7A max. (**CS 75L**)
- Frequency ..... 47~440Hz max. (50~60Hz typ.)
- Efficiency ..... 76% min.
- Inrush current (at cold start) ..... 20A max. @ 110VAC (**CS 75L**) / 40A max. @ 220VAC (**CS 75**)
- Leakage current ..... 0.5mA max. @ 110VAC (**CS 75L**) / 0.75mA max. @ 220VAC (**CS 75**)

**OUTPUT**

- Voltage adj. Range .....  $\pm 10\%$  typ.
- Ripple and noise ..... 1% max.
- Line regulation .....  $\pm 1\%$  max.
- Load regulation .....  $\pm 1\%$  max.
- Dynamic load regulation .....  $\pm 3\%$  max.
- Temperature drift .....  $\pm 1\%$  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.

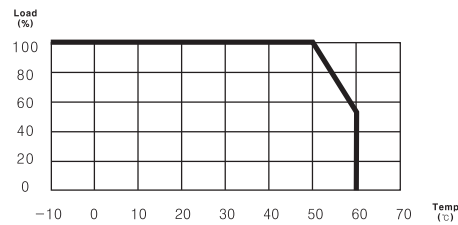
## Ordering Information

Input	Output	Maximum Power	Ripple & Noise max	Efficiency Typ.	model Number
AC 90~132V (or DC 120~170V)	+3.3V@15.0A	49.5W	80mVp-p	76%	<b>CS75L-3R3</b> <b>CS75L-5</b> <b>CS75L-12</b> <b>CS75L-15</b> <b>CS75L-24</b> <b>CS75L-48</b>
	+5.0V@15.0A	75.0W	100mVp-p	76%	
	+12.0V@6.3A	75.6W	120mVp-p	80%	
	+15.0V@5.0A	75.0W	150mVp-p	81%	
	+24.0V@3.2A	76.8W	200mVp-p	83%	
	+48.0V@1.6A	76.8W	300mVp-p	84%	
AC 170~264V (or DC 220~340V)	+3.3V@15.0A	49.5W	80mVp-p	77%	<b>CS75-3R3</b> <b>CS75-5</b> <b>CS75-12</b> <b>CS75-15</b> <b>CS75-24</b> <b>CS75-48</b>
	+5.0V@15.0A	75.0W	100mVp-p	77%	
	+12.0V@6.3A	75.6W	120mVp-p	81%	
	+15.0V@5.0A	75.0W	150mVp-p	82%	
	+24.0V@3.2A	76.8W	200mVp-p	84%	
	+48.0V@1.6A	76.8W	300mVp-p	85%	

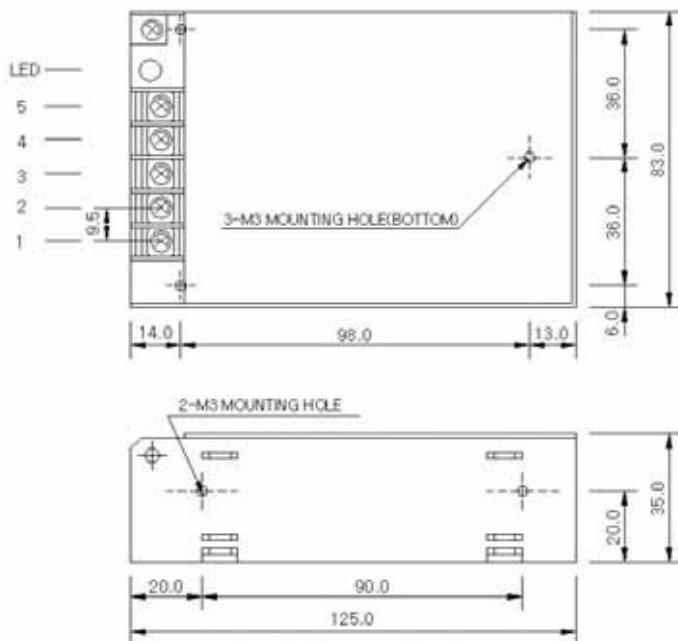
## Pin assignments

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

## Derating curve



## Dimensions



### NOTES

1. All dimensions are mm.
2. Weight : 430g or less (single)
3. Mounting holes(5) for M3 screw, which should not enter the supply surface by more than 3.5mm.