

C 200

C 200 Series AC/DC Converters

Total power 200 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 1.4×10⁶hrs
- Safety meets EN 60950
 UL 60950 / CSA C22.2
- Noise meets CISPR22-B
 FCC class B

ELECTRICAL SPECIFICATIONS

INPUT	<ul style="list-style-type: none"> • Voltage CS 200L - AC90~132V (or DC 120~170V) CS 200 - AC 170~264V (or DC 240~340V) • Current 2.3A max. (CS 200) / 4.4A max. (CS 200L) • Frequency 47~440Hz max. (50~60Hz typ.) • Efficiency 78% min. • Inrush current (at cold start) 20A max. @ 110VAC (CS 200L) / 40A max. @ 220VAC (CS 200) • Leakage current 0.5mA max. @ 110VAC (CS 200L) / 0.75mA max. @ 220VAC (CS 200)
OUTPUT	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

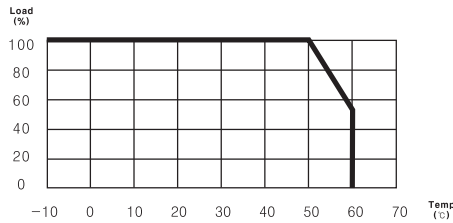
Ordering Information

Input	Output	Maximum Power	Ripple & Noise max	Efficiency Typ.	model Number
AC 90~132V (or DC 120~170V)	+3.3V@40.0A	132.0W	80mVp-p	78%	CS200L-3R3 CS200L-5 CS200L-12 CS200L-15 CS200L-24 CS200L-48
	+5.0V@40.0A	200.0W	100mVp-p	79%	
	+12.0V@16.8A	201.6W	120mVp-p	83%	
	+15.0V@13.5A	202.5W	150mVp-p	84%	
	+24.0V@8.4A	201.6W	200mVp-p	86%	
	+48.0V@4.2A	201.6W	300mVp-p	86%	
AC 170~264V (or DC 220~340V)	+3.3V@40.0A	132.0W	80mVp-p	79%	CS200-3R3 CS200-5 CS200-12 CS200-15 CS200-24 CS200-48
	+5.0V@40.0A	200.0W	100mVp-p	80%	
	+12.0V@16.8A	201.6W	120mVp-p	84%	
	+15.0V@13.5A	202.5W	150mVp-p	85%	
	+24.0V@8.4A	201.6W	200mVp-p	87%	
	+48.0V@4.2A	201.6W	300mVp-p	87%	

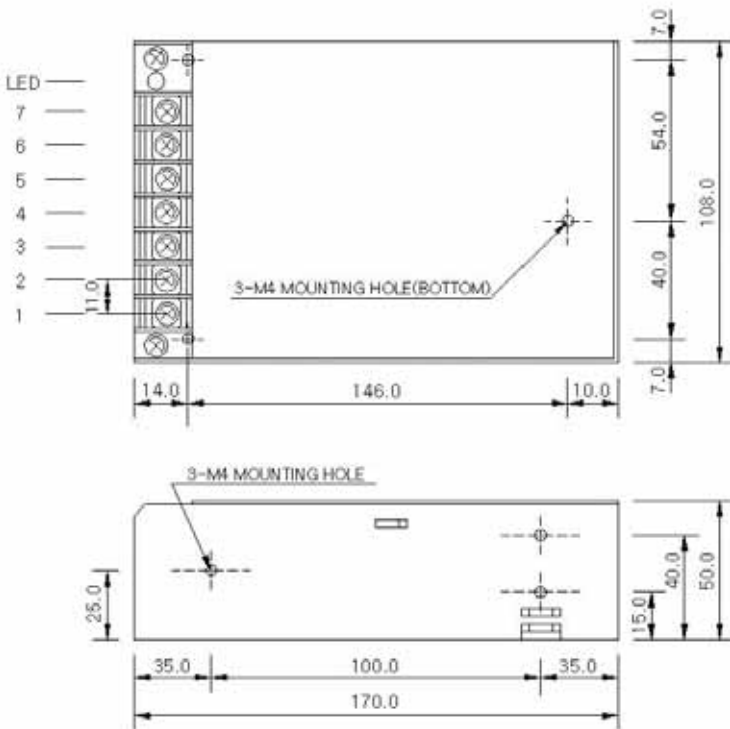
Pin assignments

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 : 900g or less (single)
3. Mounting holes(6) for M4 screw, which should not enter the supply surface by more than 3.5mm.