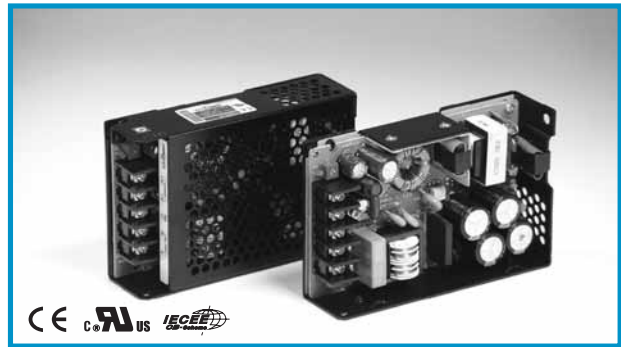


C50

C 50 Series AC/DC Converters

Total power 50 Watts
Input voltages AC 90~264V or DC120~340V
#of outputs Single, Dual output



SPECIAL FEATURES

- UL Making, CE Making (Low Voltage Directive)
- Small, compact size
- Surface mounting technology
- High efficiency
- Universal input
- 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 1.8×10^5 hrs
- Safety Approved (Single output)
 - ┌ UL (UL 60950) / CSA C22.2 (NO.60950) /
 - └ CB (IEC60950) / CE (EN 60950) through TÜV
- Noise meets CISPR22-B
FCC class B

ELECTRICAL SPECIFICATIONS

INPUT	<ul style="list-style-type: none"> • Voltage AC 90~264V (or DC 120~340V) (note1) • Current 1.25A max. • Frequency 47~440Hz max. (50~60Hz typ.) • Efficiency 75% min. • Inrush current (at cold start) 30A max. @ 110VAC / 60A max. @ 220VAC • Leakage current 0.5mA max. @ 110VAC / 0.75mA max. @ 220VAC
OUTPUT	<ul style="list-style-type: none"> • Voltage adj. Range $\pm 10\%$ typ. @ Output1 • Ripple and noise 1% max. • Line regulation $\pm 1\%$ max. • Load regulation $\pm 1\%$ max. @ Output1 / $\pm 2\%$max. @ Output2, 3 • Dynamic load regulation $\pm 3\%$ max. @ Output1 • Temperature drift $\pm 1\%$ typ. • Rising time 100ms max. • Holding time 17ms min. • Min load output 1 current > output 2 current (dual)
PROTECTION CIRCUIT	<ul style="list-style-type: none"> • Over current protection Over 105% of rating (Auto-restart) • Over voltage protection 115~140% of rating • Over temperature protection 80℃ 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.

NOTE 1. For cases where conformance to various safety specs (UL, CSA, CE, etc) are required, input voltage and frequency range will be 100-240VAC, 50/60Hz.

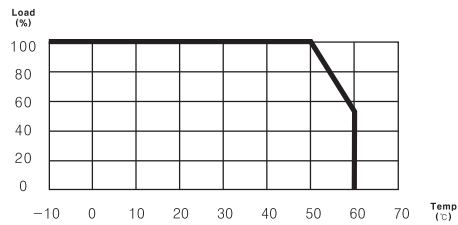
Ordering Information

Input	Output1	Output2	Maximum Power	Ripple&Noise max	Efficiency Typ.	model Number
AC 90 ~ 264V or DC 120 ~340V	+3.3V@10.0A		33.0W	50mVp-p	75%	CS50-3R3
	+5.0V@10.0A		50.0W	80mVp-p	75%	CS50-5
	+12.0V@4.2A		50.4W	100mVp-p	77%	CS50-12
	+15.0V@3.4A		51.0W	120mVp-p	80%	CS50-15
	+24.0V@2.1A		50.4W	150mVp-p	82%	CS50-24
	+5.0V@6.0A	+5.0V@3.0A	45.0W	50/50mVp-p	75%	CD50-55
	+5.0V@6.0A	+12.0V@1.7A	50.4W	50/120mVp-p	76%	CD50-52
	+5.0V@6.0A	+15.0V@1.3A	49.5W	50/150mVp-p	77%	CD50-5F
	+5.0V@6.0A	+24.0V@0.8A	49.2W	50/200mVp-p	78%	CD50-54
	+12.0V@2.5A	+12.0V@1.5A	48.0W	150/150mVp-p	78%	CD50-1212
+15.0V@2.0A	+15.0V@1.3A	49.5W	120/120mVp-p	78%	CD50-1515	

Pin assignments

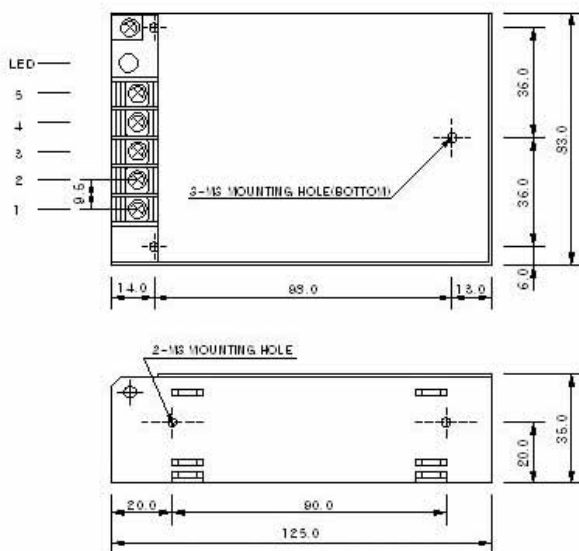
Connector	Single	Dual
CN 1	1. AC(L)	1. AC(L)
	2. AC(N)	2. AC(N)
	3. FG	3. FG
	4. -V	4. -V ₂
	5. +V	5. +V ₂
		6. -V ₁
		7. +V ₁

Derating curve

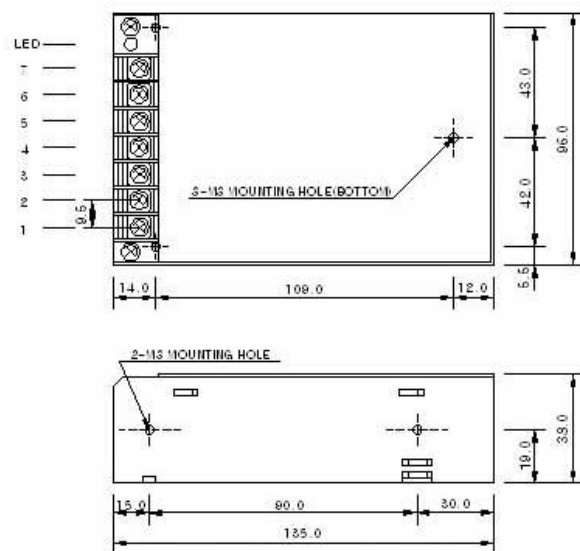


Dimensions

► Single Output



► Dual Output



NOTES

- All dimensions are mm.
- Weight : 400g or less (single)
600g or less(Dual)
- Mounting holes(5) for M3 screw, which should not enter the supply surface by more than 3.5mm.