

FEATURES Single Output



- High Efficiency
- Small, Compact Size
- Universal Input
- Surface Mounting Technology
- Built-in EMI Filter
- Inrush Current Limit
- Adjustable Output Voltage
- Output Over Current Protection
- Output Over Voltage Protection
- Over Temperature Protection
- Low Output Ripple / Noise
- Isolated Output
- 2 Years Warranty

ELECTRICAL SPECIFICATIONS

Input

- Voltage [CS100L : AC 90V - 132V (NOTE1)
CS100 : AC 170V - 264V (or DC 240 - 340V) (NOTE2)
- Current 2.3A Max. (CS100L) / 1.2A Max. (CS100)
- Frequency 47 - 440Hz Max. (50 - 60Hz typ.)
- Efficiency 78 - 87% Typ.
- Inrush Current (at Cold Start) 20A Max. @110Vac (CS100L) / 40A Max. @220Vac (CS100)
- Leakage Current 0.5mA Max. @110Vac (CS100L) / 0.75mA Max. @220Vac (CS100)

Output

- Output Voltage Tolerance $\pm 10\%$ Typ.
- Ripple and Noise $\pm 1.0\%$ Max.
- Line Regulation $\pm 1.0\%$ Max.
- Load Regulation $\pm 1.0\%$ Max.
- Dynamic Load Regulation $\pm 3.0\%$ Max.
- Temperature Drift $\pm 1.0\%$ Typ.
- Rising Time 100ms Max.
- Holding Time 17ms Min.

Protection Circuit

- Over Current Protection Work Over 105% of Rating (Auto-Restart)
- Over Voltage Protection Work at 115~140% of Rating (Latch-Up Mode)
- Over Temperature Protection 80°C Min.

Electrically Isolated

- Input - Output AC 3KV, 1min. 10mA / DC 500V, 100M Min.
- Input - FG AC 2KV, 1min. 10mA / DC 500V, 100M Min.
- Output - FG AC 0.5KV, 1min. 10mA / DC 500V, 70M Min.

NOTE 1. For cases where conformance to various safety specs (CE) are required, input voltage and frequency range will be 100-120VAC, 50/60Hz.
2. For cases where conformance to various safety specs (CE) are required, input voltage and frequency range will be 200-240VAC, 50/60Hz.

ENVIRONMENTAL

- Operating Temperature Range -10°C ~ 60°C
- Operating Humidity (Non-Condensing) 20% ~ 90%RH
- Storage Temperature Range -20°C ~ 70°C
- Storage Humidity (Non-Condensing) 20% ~ 90%RH
- Vibration 10 ~ 55Hz at 2G 3Minutes Period
- Impact 20G for 11ms, once on each X, Y and Z-axis
- Cooling Method Convection
- MTBF (MIL-HDBK-217F) 1.7 X 10⁵hrs
- Safety (Single Output) CE_LVD (EN 60950-1) through TÜV
- Noise Meets CISPR22-B / FCC class B

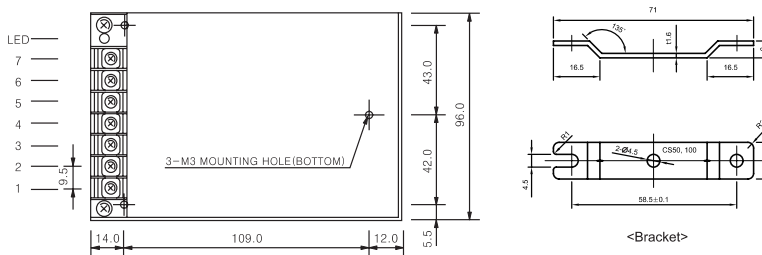
ORDERING INFORMATION

Input	Output	Maximum Power	Ripple&Noise Max.	Efficiency Typ.	Model Number
AC 90 ~ 132V or AC 170 ~ 264V (DC 240~340V)	3.3V@20.00A	66.00W	80mVp-p	78%	CS100L-3R3
	5V@20.00A	100.00W	100mVp-p	82%	CS100L-5
	12V@8.40A	100.80W	120mVp-p	84%	CS100L-12
	15V@6.70A	100.50W	150mVp-p	85%	CS100L-15
	24V@4.20A	100.80W	200mVp-p	85%	CS100L-24
	48V@2.10A	100.80W	300mVp-p	86%	CS100L-48
	3.3V@20.00A	66.00W	80mVp-p	79%	CS100-3R3
	5V@20.00A	100.00W	100mVp-p	83%	CS100-5
	12V@8.40A	100.80W	120mVp-p	85%	CS100-12
	15V@6.70A	100.50W	150mVp-p	86%	CS100-15
	24V@4.20A	100.80W	200mVp-p	86%	CS100-24
	48V@2.10A	100.80W	300mVp-p	87%	CS100-48

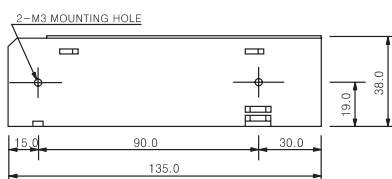
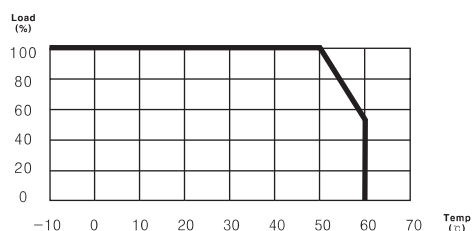
PIN ASSIGNMENTS

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

DIMENSION



DERATING CURVE



NOTE

- 1 All dimensions are in mm
- 2 Weight : 530g or less (single)
Mounting holes(5) for M3 screw, which should not enter the supply surface by more than 3.5mm.