

## LC250SH Series 250W Single Output

### FEATURES

- \* High Efficiency (up to 91.8%)
- \* Build-in Active PFC (Typical 0.99)
- \* Constant Output Current
- \* Waterproof (IP67)
- \* OVP, SCP, OTP, OCP Protection



Dimensions: 188.5x78x37mm

### MODEL SELECTION CHART



| Model        | Output Current (mA) | Output Voltage (V) | Efficiency |            | PF         |            | No Load Output Voltage (V) | Ripple & Noise (V) |
|--------------|---------------------|--------------------|------------|------------|------------|------------|----------------------------|--------------------|
|              |                     |                    | 110V Input | 220V Input | 110V Input | 220V Input |                            |                    |
| LC250SH-1400 | 1400                | 107 ~ 179          | 90.0%      | 91.8%      | 0.99       | 0.96       | 188                        | 5.4                |
| LC250SH-1750 | 1750                | 86 ~ 143           | 90.0%      | 91.8%      | 0.99       | 0.96       | 150                        | 4.3                |
| LC250SH-2100 | 2100                | 72 ~ 119           | 90.0%      | 91.8%      | 0.99       | 0.96       | 125                        | 3.6                |
| LC250SH-2450 | 2450                | 61 ~ 102           | 90.0%      | 91.8%      | 0.99       | 0.96       | 107                        | 3.1                |
| LC250SH-2800 | 2800                | 54 ~ 89            | 90.0%      | 91.8%      | 0.99       | 0.96       | 94                         | 2.7                |
| LC250SH-3150 | 3150                | 48 ~ 79            | 90.0%      | 91.8%      | 0.99       | 0.96       | 83                         | 2.4                |
| LC250SH-3500 | 3500                | 43 ~ 72            | 90.0%      | 91.8%      | 0.99       | 0.96       | 76                         | 2.2                |
| LC250SH-4200 | 4200                | 36 ~ 60            | 90.0%      | 91.8%      | 0.99       | 0.96       | 63                         | 1.8                |

1. All specifications are typical at 25°C unless otherwise stated.
2. The "Efficiency" & "PF" values are measured at full load, after the unit is thermally stabilized, otherwise they will be lower about 1%.
3. The "Ripple & Noise" values are measured by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor.

### ELECTRICAL

|       | Parameter          | Values       | Condition         |
|-------|--------------------|--------------|-------------------|
| INPUT | AC Voltage         | 90 ~ 305 Vac | Operating Voltage |
|       | AC Frequency Range | 47 ~ 63 Hz   | Operating Voltage |

|                |                                 |             |  |
|----------------|---------------------------------|-------------|--|
|                | <b>AC Current (110V input)</b>  | 2.5A        | Full load, Vin=110V  |
|                | <b>AC Current (220V input)</b>  | 1.2A        | Full load, Vin=220V  |
|                | <b>Inrush Current</b>           | 65A         | Cold start, Vin=230V   |
|                | <b>Leakage Current</b>          | 0.75 mA     | Vin=277V, 50Hz   |
| <b>OUTPUT</b>  | <b>Top Output Power</b>         | 250.5 W max |  |
|                | <b>Set-up Delay Time</b>        | 1.0 ~ 2.0 s |  |
|                | <b>Line Regulation</b>          | 1%          |  |
|                | <b>Load Regulation</b>          | 3%          |  |
| <b>PROTECT</b> | <b>Over Voltage Protect</b>     | 1.25 Vo     | ±5% floating deviation<br>Latch mode. The power supply shall return to normal operation only after the power is turn-on again.                             |
|                | <b>Short Circuit Protect</b>    |             | No damage shall occur when any output operating in a short circuit condition. The power supply shall be self-recovery when the fault condition is removed. |
|                | <b>Over Current Protect</b>     |             |  |
|                | <b>Over Temperature Protect</b> | 110°C       |  |

1. All specifications except "OTP" are measured at 25°C.

## SAFETY & EMC

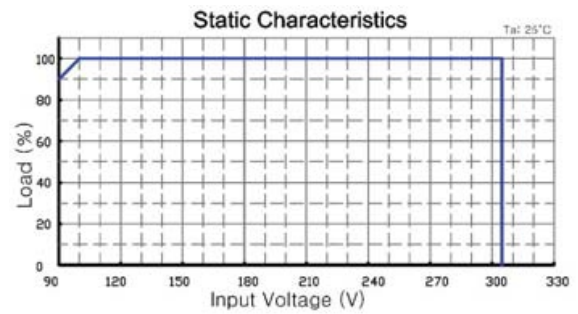
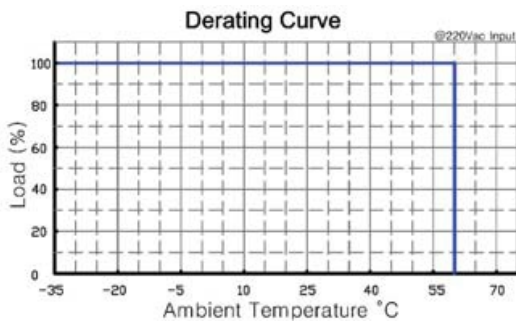
| Parameter                 | Standards   |
|---------------------------|---|
| <b>Safety UL/c-UL, CE</b> | UL8750, UL935, UL1012, CSA-C22.2 No.107.1<br>EN61347-1, EN61347-2-13  |
| <b>EMI</b>                | EN55015   |
| <b>EMS</b>                | EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3,<br>EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8,<br>EN61000-4-11, EN61547 |

## PRODUCT INFO

| Parameter                      | Values                                     |
|--------------------------------|--|
| <b>Working Temp., Humidity</b> | -35°C ~ +60°C; 10 ~ 100% RH non-condensing |
| <b>Storage Temp., Humidity</b> | -40°C ~ +85°C; 5 ~ 100% RH                 |

|                   |                     |                |
|-------------------|---------------------|----------------|
| <b>Dimension</b>  | Inches (L*W*H)      | 7.40*3.07*1.46 |
|                   | Millimeters (L*W*H) | 188.5*78*37    |
| <b>Net Weight</b> |                     | 1100 g         |

## DERATING CURVE



## MECHANICAL

