



SUNPOWER TECHNOLOGY CORP.  
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# SPS-110 Series

110W, Single Output



198 x 95 x 38 mm  
7.8 x 3.74 x 1.50 inch

## Features:

- \* 85V ~ 132 V or 170V ~ 264V Selected by switch
- \* Built in EMI filter, low ripple noise
- \* Over load, over voltage, short circuit protection
- \* Output voltage  $\pm 10\%$  adjustment
- \* Non min load requirement
- \* 100% 50°C burn-in test
- \* Meet UL, cUL, TUV, ,CB, CE standard
- \* 1 years warranty

## Specification:

| MODEL       |                          | SPS-110-3.3                                                                                | SPS-110-05 | SPS-110-7.5 | SPS-110-10 | SPS-110-12  | SPS-110-15  | SPS-110-18  | SPS-110-24  | SPS-110-28  | SPS-110-48  |
|-------------|--------------------------|--------------------------------------------------------------------------------------------|------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OUTPUT      | Voltage                  | 3.3V                                                                                       | 5V         | 7.5V        | 10V        | 12V         | 15V         | 18V         | 24V         | 28V         | 48V         |
|             | Min. Load                | 0A                                                                                         |            |             |            |             |             |             |             |             |             |
|             | Max. Load                | 25A                                                                                        | 22A        | 14.7A       | 11A        | 9.2A        | 7.5A        | 6.2A        | 4.6A        | 4.0A        | 2.3A        |
|             | Regulation               | $\pm 3\%$                                                                                  | $\pm 2\%$  | $\pm 1\%$   |            |             |             |             |             |             |             |
|             | Ripple Noise(max)        | 50mV                                                                                       | 50mV       | 100mV       | 100mV      | 120mV       | 150mV       | 180mV       | 240mV       | 280mV       | 480mV       |
|             | Efficiency (typ)         | 70%                                                                                        | 75%        | 75%         | 76%        | 78%         | 79%         | 79%         | 80%         | 80%         | 81%         |
| INPUT       | Voltage                  | 85V ~ 132 V or 170V ~ 264V Selected by switch                                              |            |             |            |             |             |             |             |             |             |
|             | Frequency                | 47 ----- 63 Hz                                                                             |            |             |            |             |             |             |             |             |             |
|             | Current                  | 2.2A max at 115V AC input, 1.4A max at 230V AC input, full load condition                  |            |             |            |             |             |             |             |             |             |
|             | Inrush Current           | <25A@115V / <50A@230V AC input, full load condition. Cold start at 25°C ambient            |            |             |            |             |             |             |             |             |             |
|             | Leakage Current          | <1.5mA@264V AC input                                                                       |            |             |            |             |             |             |             |             |             |
| PROTECTION  | Over Load Protection     | Over 105% ~ 180% of rating, recovers automatically after fault condition has been removed. |            |             |            |             |             |             |             |             |             |
|             | Over Voltage Protection  | 3.8V~4.6V                                                                                  | 5.8V~7.0V  | 8.6V~10.5V  | 11.5~14.0V | 13.8V~17.5V | 17.3V~21.0V | 20.7V~25.2V | 27.6V~33.6V | 32.2V~39.2V | 55.2V~67.2V |
|             | Short Circuit Protection | Shutdown, recovers automatically after fault condition has been removed.                   |            |             |            |             |             |             |             |             |             |
| OTHERS      | Setup time               | <800mS @115V, <300mS @230V                                                                 |            |             |            |             |             |             |             |             |             |
|             | Rise time                | <50mS                                                                                      |            |             |            |             |             |             |             |             |             |
|             | Hold up time             | >20mS@230V                                                                                 |            |             |            |             |             |             |             |             |             |
|             | Cooling                  | Natural Cooling                                                                            |            |             |            |             |             |             |             |             |             |
| Environment | Temperature              | Operating: 0~70°C; derating: 45°C ~70°C : 2.0%/°C. Storage: -10~+75°C                      |            |             |            |             |             |             |             |             |             |
|             | Humidity                 | Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)                                  |            |             |            |             |             |             |             |             |             |
| M.T.B.F.    |                          | 270K hours                                                                                 |            |             |            |             |             |             |             |             |             |
| SAFETY      |                          | Meet UL 1950, CSA C22.2 No.950-95, TUV EN 60950, IEC 60950, EMKO-TSE (74-SEC)207/94        |            |             |            |             |             |             |             |             |             |
| EMC         | EMI                      | FCC CFR 47 PART 15 CLASS B, EN 50081-1, CNS 13438 CALSS B.                                 |            |             |            |             |             |             |             |             |             |
|             | EMS                      | EN 50082-1 (1997)                                                                          |            |             |            |             |             |             |             |             |             |
| PACKING     |                          | N.W.: 0.7Kg / 1pc; 24pcs / 1.22 Cu ft <sup>3</sup> / 1 CTN                                 |            |             |            |             |             |             |             |             |             |



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**Dimension:**

