



SUNPOWER TECHNOLOGY CORP.
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SPS-G075-Dx Series

Dual Output



129 x 95 x 38 mm
 5.08 x 3.74 x 1.50 inch
 CB CE

Features:

- * Power ON with LED indicator
- * Built in EMI filter, low ripple noise
- * Over voltage protection : Shutdown and latch off
- * Over load & short circuit protection : Hiccup mode
- * 100% full load burn-in test
- * -20°C~70°C Operating temperature
- * UL, cUL, TUV, CB, CE approved
- * 3 years warranty

Specification:

| | | | | | |
|-------------|--------------------------------------|--|-------|-------------|-------|
| INPUT | Voltage | 88V ~ 264VAC universal full range or 125V ~ 375VDC. | | | |
| | Frequency | 47 ----- 63 Hz | | | |
| | Current | <1.8A@100V AC input, full load condition | | | |
| | Inrush Current | <30A@115V , <50A@230V AC input, Cold start at 25°C ambient | | | |
| | Leakage Current | <0.75mA@264V AC input | | | |
| OUTPUT | MODEL No. | SPS-G075-D1 | | SPS-G075-D2 | |
| | Output | V1 | V2 | V1 | V2 |
| | Voltage | 5V | 12V | 5V | 24V |
| | Min Load | 0.3A | 0.2A | 0.3A | 0.2A |
| | Max Load | 8A | 5A | 8A | 2.5A |
| | Output Tolerance ② | ± 3% | ± 7% | ± 3% | ± 7% |
| | Ripple Noise MAX. ③ | 70mV | 120mV | 70mV | 200mV |
| | Efficiency (TYP.) | 78% | | 79% | |
| PROTECTION | Over Voltage | V1 : 5.8 ~ 7.0V ; Shutdown and latch off, recover after re-start up. | | | |
| | Over Load & Short Circuit | When power supply over 105%~ 150% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed. | | | |
| ELEC. CHAR. | Rise time | <30mS | | | |
| | Hold up time | >60mS@230V, full load condition | | | |
| | Setup time | <1 Sec@100 ~ 240V AC | | | |
| ENVIRONMENT | Temperature ④ | Operating: -20 ~ +70°C ; De-rating: 45 ~ 70°C: 2.5%/°C ; Storage: -40 ~ +85°C | | | |
| | Humidity | Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing) | | | |
| | Altitude | 6562 ft (≈ 2000 m) operating | | | |
| SAFETY | Withstand voltage | I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute | | | |
| | Isolation resistance | I/P-O/P, I/P-PE, O/P-PE > 100MΩ/500VDC at 25°C/ 70% RH | | | |
| | Safety standard | UL 60950-1 2 nd , CSA C22.2 No. 60950-1- 07 2 nd TUV EN 60950-1:2006+A11+A1+A12, IEC 60950-1:2005+A1, approved. | | | |
| EMC | EMI | EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B. Compliance to EN61000-3-2 CLASS A, EN61000-3-3 | | | |
| | EMS | EN 55024 : EN 61000-4-2,3,4,5,6,8,11 | | | |
| OTHERS | Cooling | Natural cooling. | | | |
| | M.T.B.F. | 299K hours | | | |
| | Terminal pitch | 7P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ) | | | |
| | Packing | N.W.: 0.46Kg / pc ; 30pcs / 1.20 CUFT / 1 CTN | | | |

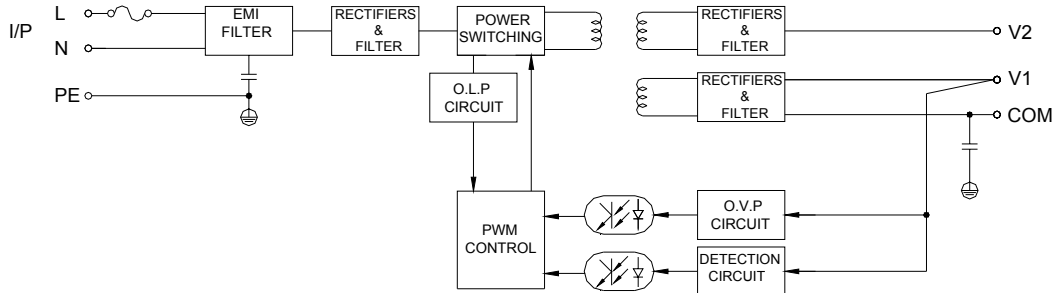
| | |
|------|---|
| NOTE | ① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25°C / 70%RH |
| | ② Output tolerance included set up voltage, line regulation and load regulation. The regulation is measured between 20%-100% max load of each output, Total output t must under output Max . |
| | ③ Ripple & noise are measured at 100~254VAC input with 10~50°C condition and 20MHz of bandwidth by using a 10" ~ 15" twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor. |
| | ④ The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC. |
| | ⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives. |



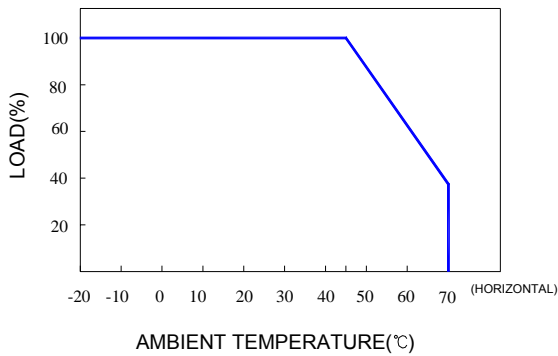
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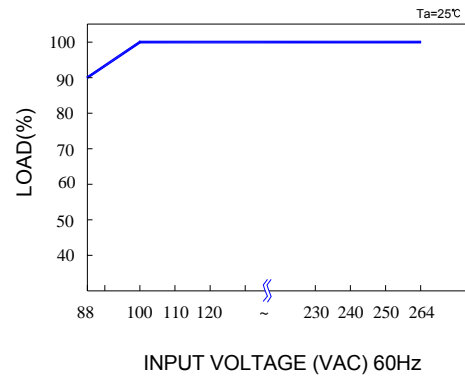
Block Diagram : UD2



De-rating Curve :

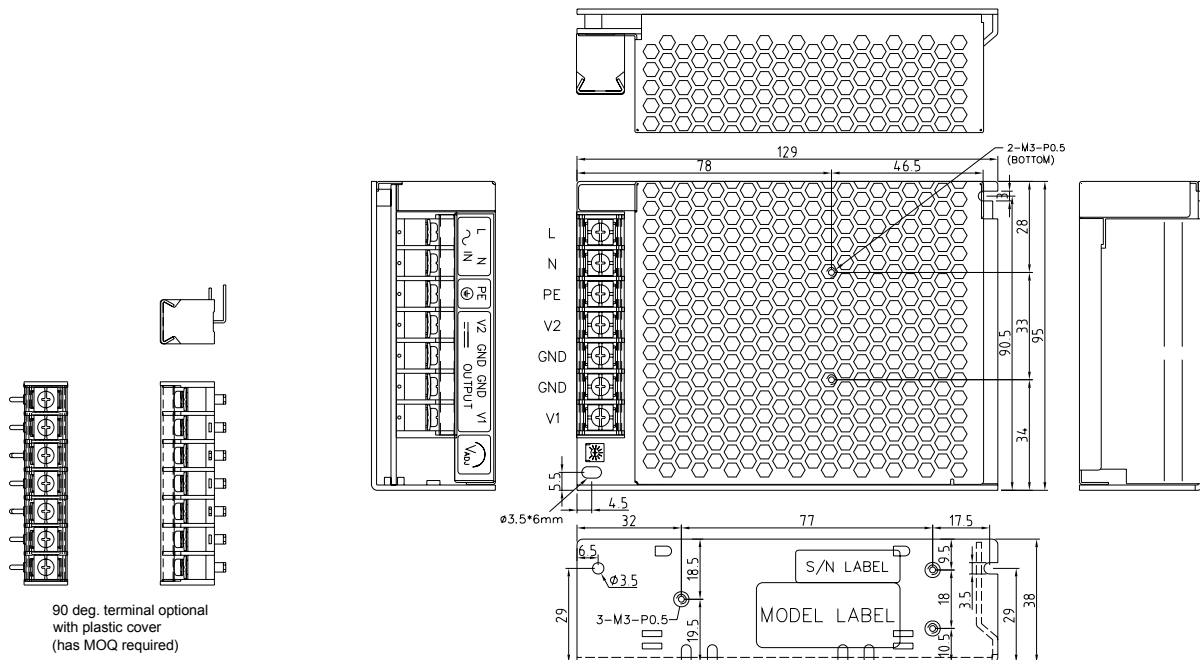


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



90 deg. terminal optional with plastic cover (has MOQ required)

Terminal Pin. No Assignment :

| 7P, PITCH 9.5mm WITH PC COVER | | | | | | | |
|-------------------------------|---|---|----|----|-----|-----|----|
| MODEL No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| SPS-G075-Dx | L | N | PE | V2 | GND | GND | V1 |