



SUNPOWER TECHNOLOGY CORP.
 16F-1, No.150, Jian Yi Rd., Chung Ho City, Taipei Hsien, Taiwan, R.O.C.
 TEL: 886-2-8226-3100 FAX: 886-2-8226-3111
 http://www.sunpower.com.tw
 E-mail: sunpower@sunpower.com.tw

SPS-G100-xx Series

100W, Single Output

Green mode function



159 x 95 x 38 mm
 6.26 x 3.74 x 1.50 inch
 CB CE

Features:

- * Green-mode design, no load < 1W
- * High efficiency and high reliability
- * 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
- * Output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ 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 | <2.5A@100V AC input, full load condition | | | | | | | |
| | Inrush Current | <35A@115V , <70A@230V AC input, Cold start at 25°C ambient | | | | | | | |
| | Leakage Current | <1.0mA@264V AC input | | | | | | | |
| OUTPUT | MODEL No. | SPS-G100-3.3 | SPS-G100-05 | SPS-G100-7.5 | SPS-G100-12 | SPS-G100-15 | SPS-G100-24 | SPS-G100-30 | SPS-G100-48 |
| | Voltage | 3.3V | 5V | 7.5V | 12V | 15V | 24V | 30V | 48V |
| | Min Load | 0A | 0A | 0A | 0A | 0A | 0A | 0A | 0A |
| | Max Load | 20A | 16A | 12A | 8.5A | 7A | 4.5A | 3.6A | 2.3A |
| | Output Tolerance ② | $\pm 3\%$ | $\pm 2\%$ | $\pm 1\%$ | $\pm 1\%$ | $\pm 1\%$ | $\pm 1\%$ | $\pm 1\%$ | $\pm 1\%$ |
| | Ripple Noise MAX. ③ | 70mV | 80mV | 80mV | 120mV | 150mV | 150mV | 200mV | 200mV |
| | Efficiency (TYP.) | 74% | 77% | 79% | 81% | 82% | 84% | 84% | 85% |
| Output MAX. | 66W | 80W | 90W | 102W | 105W | 108W | 108W | 110W | |
| PROTECTION | Over Voltage | 3.8~4.5V | 5.8~7.0V | 8.6~10.5V | 13.8~16.8V | 17.3~21.0V | 27.6~33.6V | 34.5~42.0V | 55.2~67.2V |
| | Over Load & Short Circuit | Shutdown and latch off, recover after re-start up. 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 | >80mS@230V, full load condition | | | | | | | |
| | Setup time | <1 Sec@100 ~ 240V AC | | | | | | | |
| | Green mode function | Power consumption at no load < 1W at 240VAC input | | | | | | | |
| ENVIRONMENT | Temperature ④ | Operating: $-20 \sim +70^{\circ}\text{C}$; De-rating: $50 \sim 70^{\circ}\text{C}$: 2.5%/°C ; Storage: $-40 \sim +85^{\circ}\text{C}$ | | | | | | | |
| | Humidity | Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing) | | | | | | | |
| 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, IEC 60950-1:2005, 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. | 300K hours | | | | | | | |
| | Terminal pitch | 7P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ) | | | | | | | |
| | Packing | N.W.:0.54Kg / 1pc ; 30pcs / 1.2 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.

③ Ripple & noise are measured at 100~254VAC input with 0~50°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.

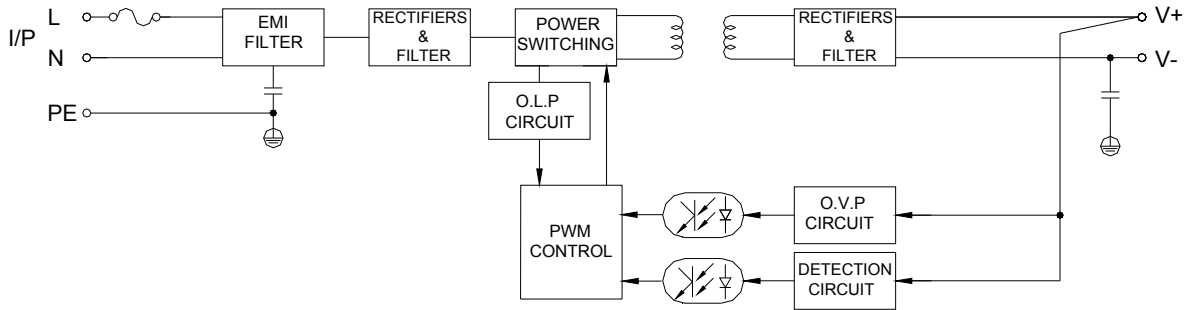
⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.



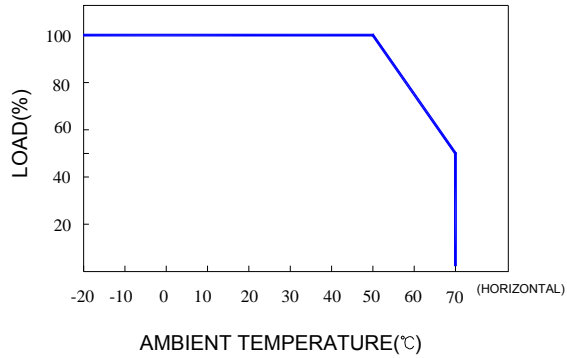
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SPS-G100-xx Series

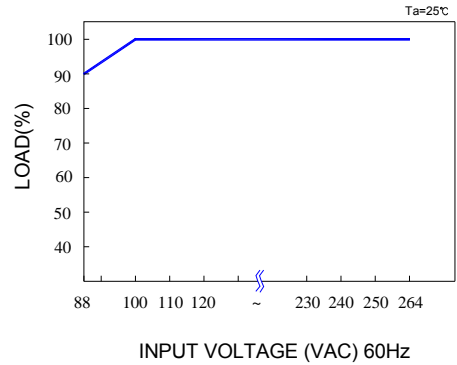
Block Diagram : US2



De-rating Curve :

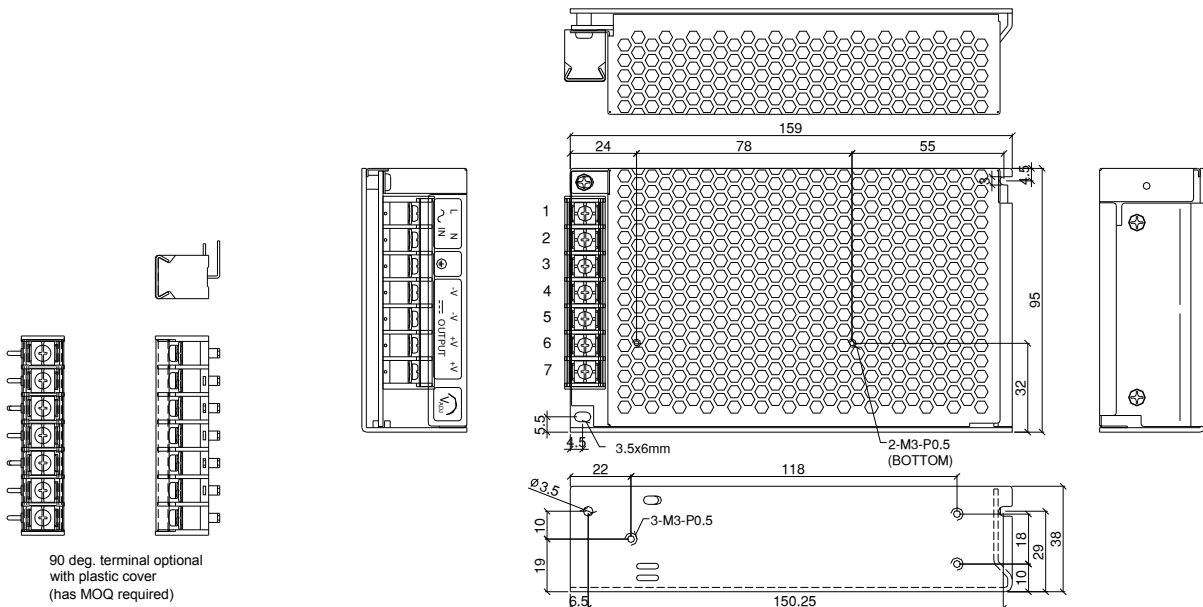


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



Terminal Pin. No Assignment: 7P / 9.5mm with plastic cover

| Pin No. | Assignment | Pin No. | Assignment |
|---------|--------------|---------|--------------|
| 1 | AC/L | 5 | DC OUTPUT -V |
| 2 | AC/N | 6 | DC OUTPUT +V |
| 3 | PE | 7 | DC OUTPUT +V |
| 4 | DC OUTPUT -V | | |



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SPS-G100-Dx Series

Dual Output



159 x 95 x 38 mm
 6.26 x 3.74 x 1.50 inch

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:

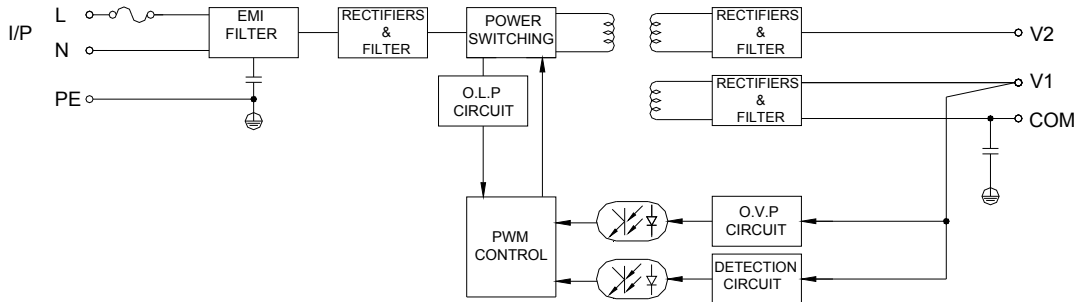
| | | | | | |
|-------------|---|--|-------|-------------|-------|
| INPUT | Voltage | 88V ~ 264VAC universal full range or 125V ~ 375VDC. | | | |
| | Frequency | 47 ----- 63 Hz | | | |
| | Current | <2.5A@100V AC input, full load condition | | | |
| | Inrush Current | <35A@115V , <70A@230V AC input, Cold start at 25°C ambient | | | |
| | Leakage Current | <1.0mA @264V AC input | | | |
| OUTPUT | MODEL No. | SPS-G100-D1 | | SPS-G100-D2 | |
| | Output | V1 | V2 | V1 | V2 |
| | Voltage | 5V | 12V | 5V | 24V |
| | Min Load | 2A | 0.3A | 2A | 0.3A |
| | Max Load | 10A | 6A | 10A | 3A |
| | Output Tolerance ② | ± 3% | ± 5% | ± 3% | ± 5% |
| | Ripple Noise MAX. ③ | 80mV | 120mV | 80mV | 200mV |
| | Efficiency (TYP.) | 78% | | 79% | |
| Output MAX. | 88W | | 90W | | |
| PROTECTION | Over Voltage | 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: 50 ~ 70°C : 2.5%/°C ; Storage: -40 ~ +85°C | | | |
| | Humidity | Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing) | | | |
| 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, IEC 60950-1:2005, 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. | 269K hours | | | |
| | Terminal pitch | 7P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ) | | | |
| | Packing | N.W.: 0.56Kg / 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 must under output Max . | | | | |
| | ③ Ripple & noise are measured at 100~254VAC input with 0~50°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. | | | | |



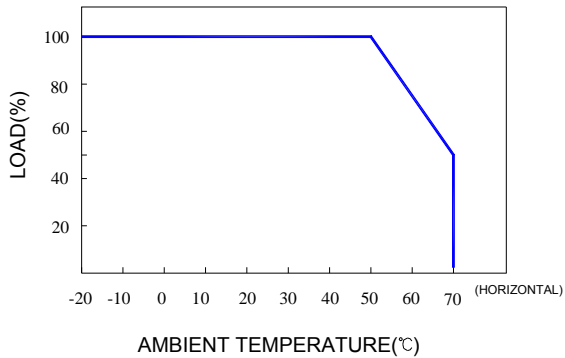
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SPS-G100-Dx Series

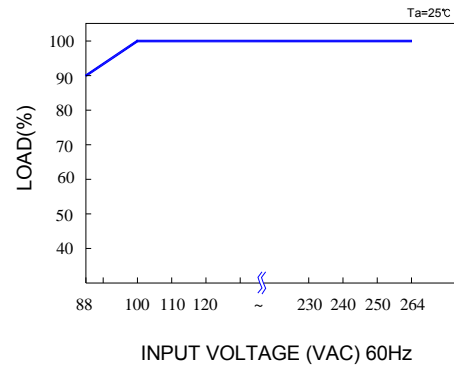
Block Diagram : UD2



De-rating Curve :

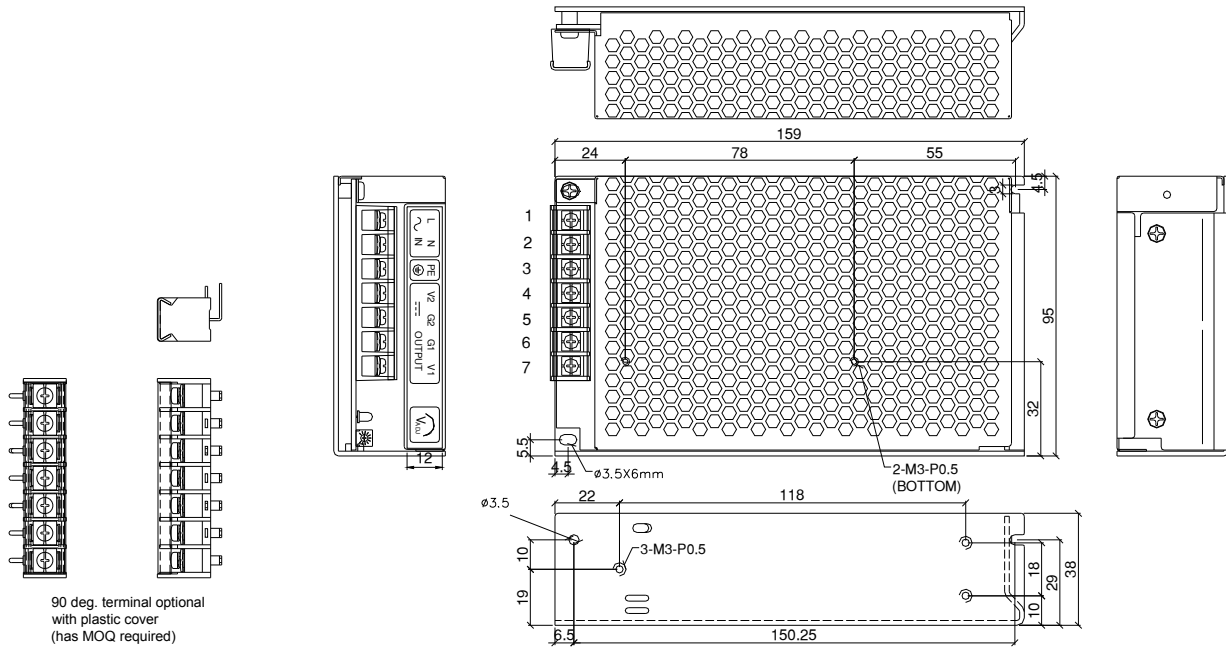


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



Terminal Pin. No Assignment :

| 7P, PITCH 9.5mm WITH PC COVER | | | | | | | |
|-------------------------------|---|---|----|----|-----|-----|----|
| MODEL No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| SPS-G100-Dx | L | N | PE | V2 | GND | GND | V1 |



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SPS-G100-IDx Series

Dual Output



159 x 95 x 38 mm
 6.26 x 3.74 x 1.50 inch

Features:

- * V1 & V2 output are isolated
- * 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
- * V1 output voltage $\pm 10\%$ adjustment for ID5、ID6
- * 100% full load burn-in test
- * $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Operating temperature
- * UL, cUL, TUV, CB, CE approved
- * 3 years warranty

Specification:

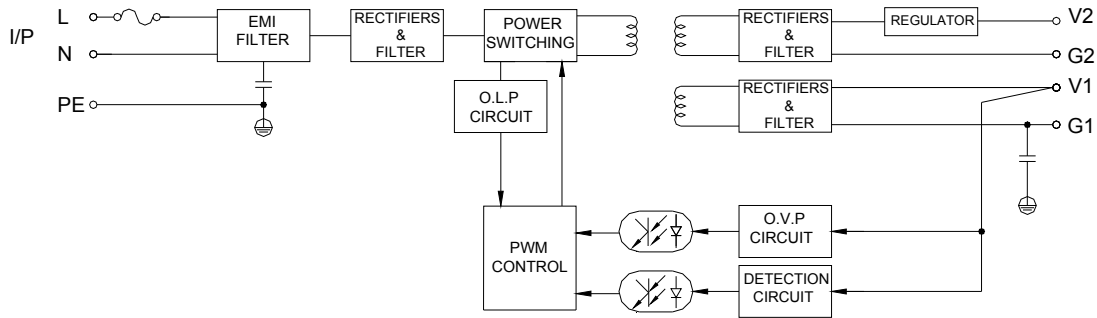
| | | | | | | | | | |
|-------------|---|--|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
| INPUT | Voltage | 88V ~ 264VAC universal full range or 125V ~ 375VDC. | | | | | | | |
| | Frequency | 47 ---- 63 Hz | | | | | | | |
| | Current | <2.5A@100V AC input, full load condition | | | | | | | |
| | Inrush Current | <35A@115V , <70A@230V AC input, Cold start at 25°C ambient | | | | | | | |
| | Leakage Current | <1.0mA @264V AC input | | | | | | | |
| OUTPUT | MODEL No. | SPS-G100-ID1 | | SPS-G100-ID2 | | SPS-G100-ID5 | | SPS-G100-ID6 | |
| | Output | V1 | V2 | V1 | V2 | V1 | V2 | V1 | V2 |
| | Voltage | 5V | 12V | 5V | 24V | 12V | 5V | 24V | 5V |
| | Min Load | 2A | 0.3A | 2A | 0.3A | 1A | 0A | 0.5A | 0A |
| | Max Load | 10A | 6A | 10A | 3A | 7A | 3A | 3.5A | 3A |
| | Output Tolerance ② | $\pm 3\%$ | $\pm 7\%$ | $\pm 3\%$ | $\pm 7\%$ | $\pm 1\%$ | $\pm 3\%$ | $\pm 1\%$ | $\pm 3\%$ |
| | Ripple Noise MAX. ③ | 80mV | 120mV | 80mV | 200mV | 120mV | 80mV | 200mV | 80mV |
| | Efficiency (TYP.) | 78% | | 79% | | 79% | | 81% | |
| Output MAX. | 88W | | 90W | | 88W | | 90W | | |
| PROTECTION | Over Voltage | 5.8 ~ 7.0V | ---- | 5.8 ~ 7.0V | ---- | 13.8~16.8V | ---- | 27.6~33.6V | ---- |
| | Over Load & Short Circuit | Shutdown and latch off, recover after re-start up. 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: $-20 \sim +70^{\circ}\text{C}$; De-rating: $50 \sim 70^{\circ}\text{C}$: 2.5%/°C ; Storage: $-40 \sim +85^{\circ}\text{C}$ | | | | | | | |
| | Humidity | Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing) | | | | | | | |
| 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, IEC 60950-1:2005, 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. | 269K hours | | | | | | | |
| | Terminal pitch | 7P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ) | | | | | | | |
| | Packing | N.W.: 0.56Kg / 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 must under output Max . | | | | | | | | |
| | ③ Ripple & noise are measured at 100~254VAC input with 0~50°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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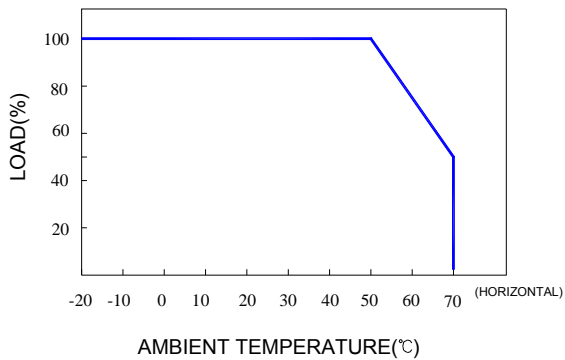
SPS-G100-IDx Series

Block Diagram : UD5

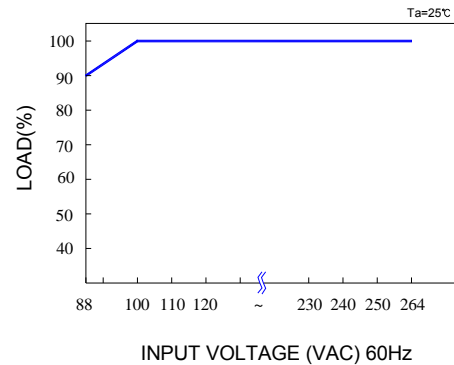


SPS-G100-ID1 & ID2 V2 without regulator

De-rating Curve :

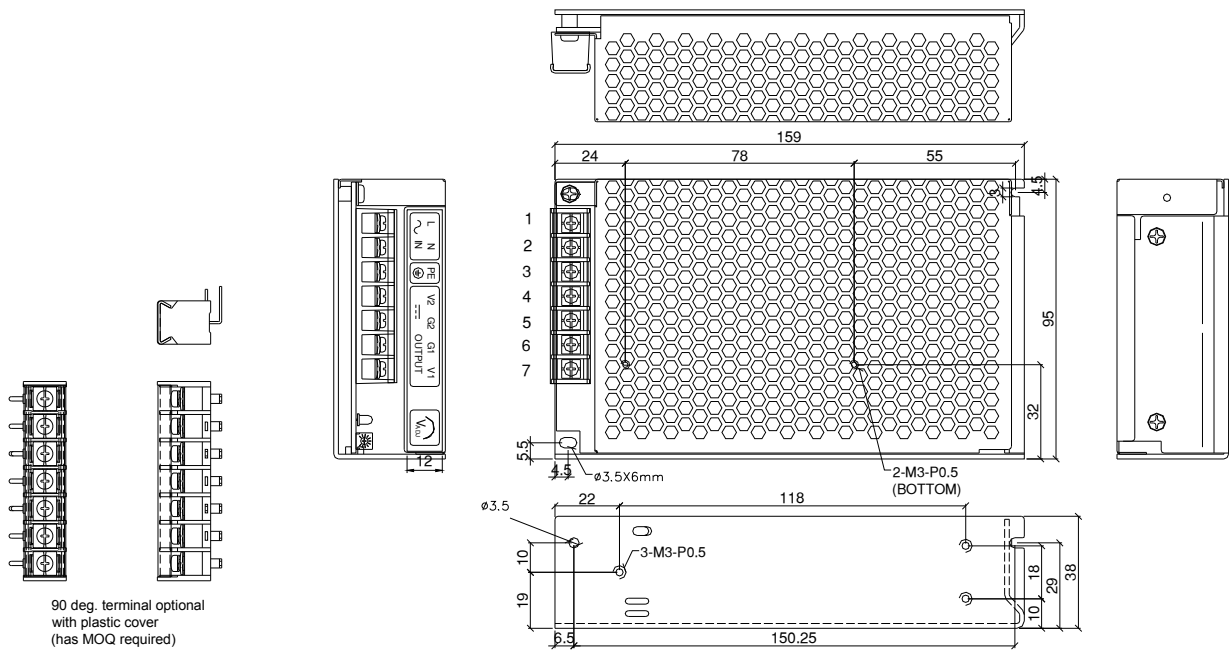


Output De-rating Vs Input Voltage :



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-G100-IDx | L | N | PE | V2 | G2 | G1 | V1 |



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SPS-G100-Qx Series

Quad Output



159 x 95 x 38 mm
 6.26 x 3.74 x 1.50 inch

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 | <2.5A@100V AC input, full load condition | | | | | | | | | | | |
| | Inrush Current | <35A@115V , <70A@230V AC input, Cold start at 25°C ambient | | | | | | | | | | | |
| | Leakage Current | <1.0mA @264V AC input | | | | | | | | | | | |
| OUTPUT | MODEL No. | SPS-G100-Q1 | | | | SPS-G100-Q3 | | | | SPS-G100-Q4 | | | |
| | Output | V1 | V2 | V3 | V4 | V1 | V2 | V3 | V4 | V1 | V2 | V3 | V4 |
| | Voltage | 5V | 12V | -12V | -5V | 5V | 12V | 24V | -12V | 5V | 15V | 24V | -15V |
| | Min Load | 2A | 0.3A | 0A | 0A | 2A | 0.3A | 0.3A | 0A | 2A | 0.3A | 0.3A | 0A |
| | Max Load | 10A | 4A | 1A | 1A | 10A | 4A | 2A | 1A | 10A | 4A | 2A | 1A |
| | Output Tolerance ② | ±2% | ±7% | ±7% | ±5% | ±2% | ±7% | ±7% | ±5% | ±2% | ±7% | ±7% | ±5% |
| | Ripple Noise MAX. ③ | 80mV | 120mV | 100mV | 100mV | 80mV | 120mV | 200mV | 100mV | 80mV | 150mV | 200mV | 100mV |
| | Efficiency (TYP.) | 76% | | | | 77% | | | | 78% | | | |
| | Output MAX. | 85W | | | | 88W | | | | 88W | | | |
| | | Note | * SPS-G100-Tx without V3 or V4 | | | | | | | | | | |
| 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: 50 ~ 70°C: 2.5%/°C ; Storage: -40 ~ +85°C | | | | | | | | | | | |
| | Humidity | Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing) | | | | | | | | | | | |
| 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 > 100MQ/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, IEC 60950-1:2005, 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. | 240K hours | | | | | | | | | | | |
| | Terminal pitch | 8P / 8.25mm with plastic cover, 90 deg terminal optional (with MOQ) | | | | | | | | | | | |
| | Packing | N.W.:0.57Kg / 1pc ; 30pcs / 1.2 CUFT / 1 CTN | | | | | | | | | | | |

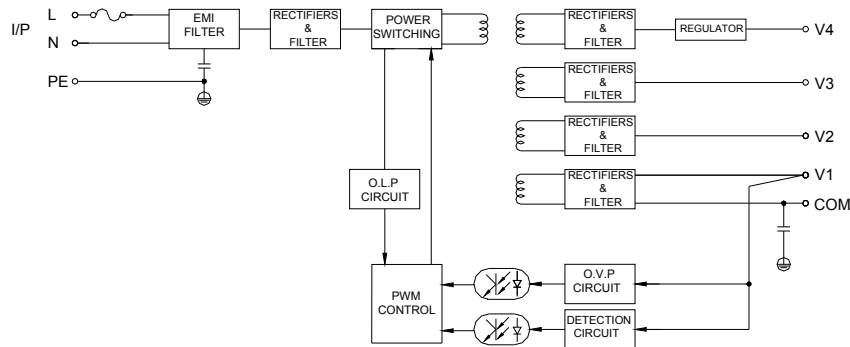
- NOTE
- ① All measurements which not mentioned are based on 230VAC input, **output Max** at ambient 25°C / 70%RH
 - ② Output tolerance included set up voltage, line regulation and load regulation.
The regulation is measured at the condition : when any of output is with 20% ~ 100% **max load** and the rest of each outputs are with 60% **max load**, Each output could work within **max load** but must under total **output max**.
 - ③ Ripple & noise are measured at 100~254VAC input with 0~50°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.



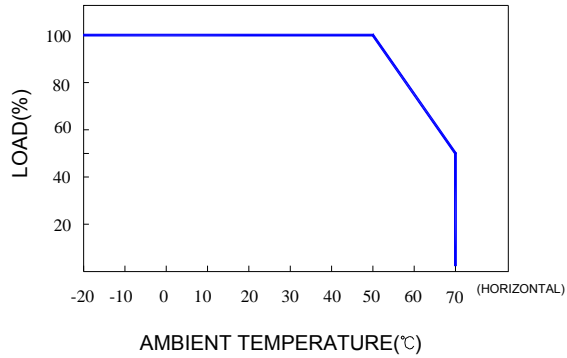
SUNPOWER TECHNOLOGY CORP.
 16F-1, No.150, Jian Yi Rd., Chung Ho City, Taipei Hsien, Taiwan, R.O.C.
 TEL: 886-2-8226-3100 FAX: 886-2-8226-3111
 http://www.sunpower.com.tw
 E-mail: sunpower@sunpower.com.tw

SPS-G100-Qx Series

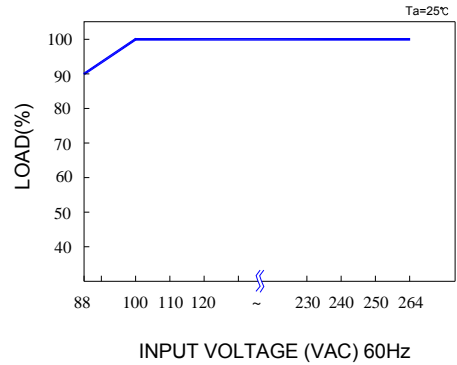
Block Diagram : UQ2



De-rating Curve :

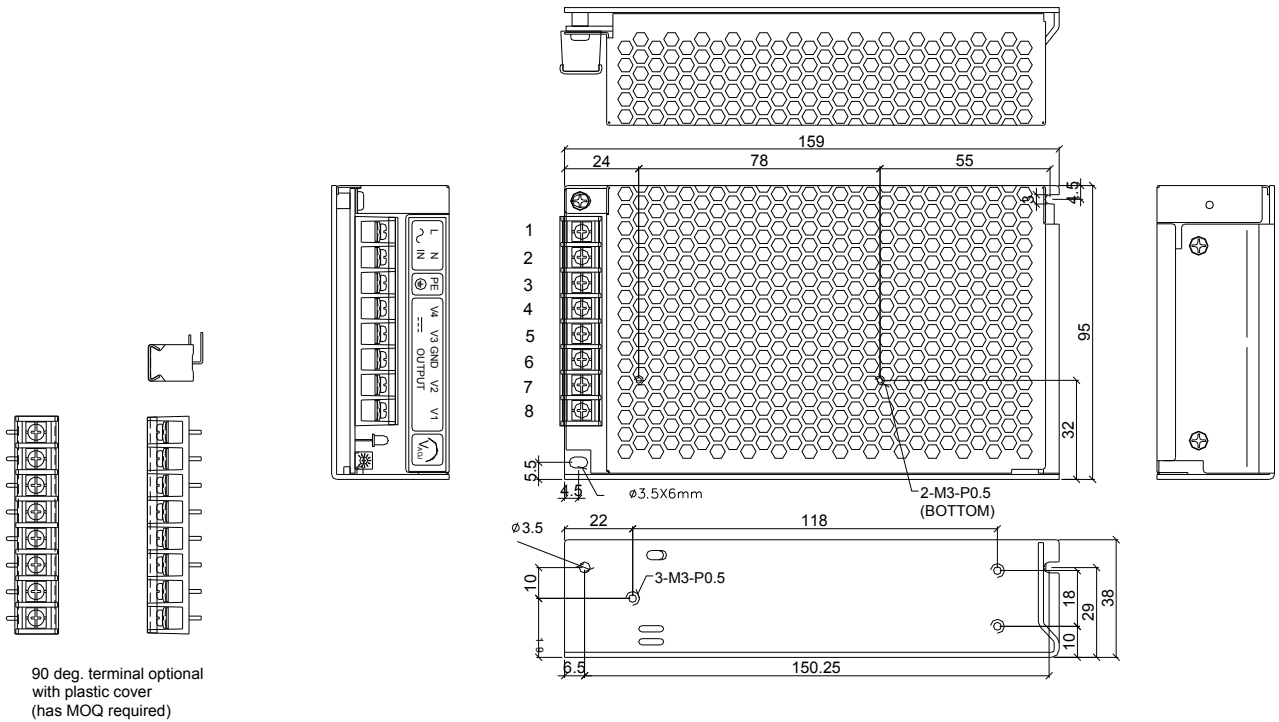


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



Terminal Pin. No Assignment :

| 8P, PITCH 8.25mm WITH PC COVER | | | | | | | | |
|--------------------------------|---|---|----|----|----|----|-----|----|
| MODEL No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| SPS-G100-Qx | L | N | PE | V4 | V3 | V2 | GND | V1 |