

SWS300 SPECIFICATIONS

CA740-01-01E

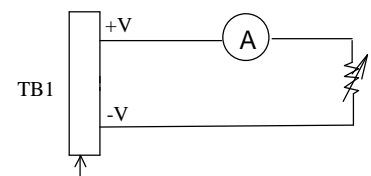
| ITEMS | MODEL | SWS300- | SWS300- | SWS300- | SWS300- | SWS300- | SWS300- | SWS300- | SWS300- | SWS300- | |
|-------|--|---------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 3 | 5 | 7R5 | 12 | 15 | 24 | 28 | 36 | 48 | |
| 1 | Nominal Output Voltage | V | 3.3 | 5 | 7.5 | 12 | 15 | 24 | 28 | 36 | 48 |
| 2 | Maximum Output Current | A | 55 | 55 | 40 | 26 | 21 | 13 | 11 | 8.7 | 6.7 |
| 3 | Maximum Output Power | W | 181.5 | 275 | 300 | 312 | 315 | 312 | 308 | 313.2 | 321.6 |
| 4 | Efficiency (Typ) (115/230VAC) (* 1) | % | 67 / 70 | 75 / 78 | 76/79 | 77 / 80 | 79 / 83 | 80 / 84 | 80/84 | 82 / 85 | 82 / 85 |
| 5 | Input Voltage Range (* 2,10) | - | 85 ~ 265VAC (47-63Hz) or 120 ~ 370VDC | | | | | | | | |
| 6 | Input Current (Typ) (115/230VAC) (* 1) | A | 2.5 / 1.3 | 3.2 / 1.6 | 3.6 / 1.8 | | | | | | |
| 7 | Inrush Current (Typ) (* 3) | - | 20A at 115VAC, 40A at 230VAC, Ta=25°C, Cold Start | | | | | | | | |
| 8 | PFHC | - | Built to meet EN61000-3-2 | | | | | | | | |
| 9 | Power Factor (Typ) (115/230VAC) (* 1) | - | 0.99 / 0.95 | | | | | | | | |
| 10 | Output Voltage Range | V | 2.97~3.96 | 4.5~6.0 | 6.75~8.25 | 9.6~13.2 | 13.2~18.6 | 20~28.8 | 22.4~33.6 | 28.8~40 | 40~57.6 |
| 11 | Ripple and Noise (115/230VAC) (* 1, 4) | mV | 120 | 120 | 120 | 120 | 120 | 150 | 150 | 200 | 240 |
| 12 | Line Regulation (* 4, 5) | mV | 20 | 20 | 30 | 48 | 48 | 48 | 56 | 72 | 96 |
| 13 | Load Regulation (* 4, 6) | mV | 40 | 40 | 60 | 96 | 120 | 120 | 140 | 180 | 240 |
| 14 | Temperature Coefficient | - | Less than 0.02%/°C | | | | | | | | |
| 15 | Over Current Protection (* 7) | A | 57.8~ | 57.8~ | 42~ | 27.3~ | 22.1~ | 13.7~ | 11.6~ | 9.2~ | 7.1~ |
| 16 | Over Voltage Protection (* 8) | V | 4.1~5.3 | 6.25~7.5 | 9.4~11.2 | 13.8~16.8 | 19.3~24.2 | 30.0~34.8 | 35.0~40.6 | 41.4~50.4 | 60.0~69.6 |
| 17 | Over Temperature Protection (* 8) | - | Yes | | | | | | | | |
| 18 | Hold-Up Time (Typ) (115/230VAC) (* 1) | - | 20ms | | | | | | | | |
| 19 | Leakage current (* 9) | - | 0.75mA Max, 0.25mA(Typ) at 115VAC / 0.5mA(Typ) at 230VAC | | | | | | | | |
| 20 | Series Operation | - | Possible | | | | | | | | |
| 21 | Operating Temperature (* 10) | - | - 10 ~ + 65 °C | | | | | | | | |
| 22 | Operating Humidity | - | 30 ~ 90 %RH (No dewdrop) | | | | | | | | |
| 23 | Storage Temperature | - | - 30 ~ +85°C | | | | | | | | |
| 24 | Storage Humidity | - | 10 ~ 95%RH (No dewdrop) | | | | | | | | |
| 25 | Cooling | - | Forced Air By Blower Fan | | | | | | | | |
| 26 | Withstand Voltage | - | Input - Output : 3.0kVAC (20mA), Input - FG : 2.0kVAC (20mA) Output - FG : 500VAC (100mA) for 1min. | | | | | | | | |
| 27 | Isolation Resistance | - | More than 100MΩ at Ta=25°C and 70%RH, Output - FG : 500VDC | | | | | | | | |
| 28 | Vibration | - | At no operating, 10 - 55Hz (sweep for 1min) 19.6m/s ² Constant, X, Y, Z 1hour each | | | | | | | | |
| 29 | Safety | - | Approved by UL60950-1, CSA60950-1, EN60950-1, EN50178 | | | | | | | | |
| 30 | EMI (* 1) | - | Built to meet FCC-Class B, EN55011/EN55022-B | | | | | | | | |
| 31 | Immunity (* 1) | - | Built to meet EN61000-4-2,-3,-4,-5,-6,-8,-11 | | | | | | | | |
| 32 | Weight (Typ) | g | 950 | | | | | | | | |
| 33 | Dimension | mm | 52 x 102 x 198 (Refer to Outline Drawing) | | | | | | | | |

* Read instruction manual carefully , before using the power supply unit.

= NOTES=

- * 1 : At maximum output power, nominal input voltage, Ta = 25°C.
- * 2 : For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC, 50 / 60Hz on name plate.
- * 3 : Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- * 4 : Please refer to Fig A for measurement of line & load regulation, ripple and noise voltage.
Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uF and 47uF capacitor.
- * 5 : 85 - 265VAC, constant load.
- * 6 : No load - Full load(Maximum power), constant input voltage.
- * 7 : Constant current limit with automatic recovery.
Avoid to operate at overload or dead short for more than 30seconds.
- * 8 : OVP, OTP circuit will shutdown output, manual reset (Re power on).
- * 9 : Measured by each measuring method of UL, CSA, EN.
- * 10 : Refer to Output Derating Curve (next page) for details of output derating versus input voltage, ambient temperature and mounting method .

Fig. A

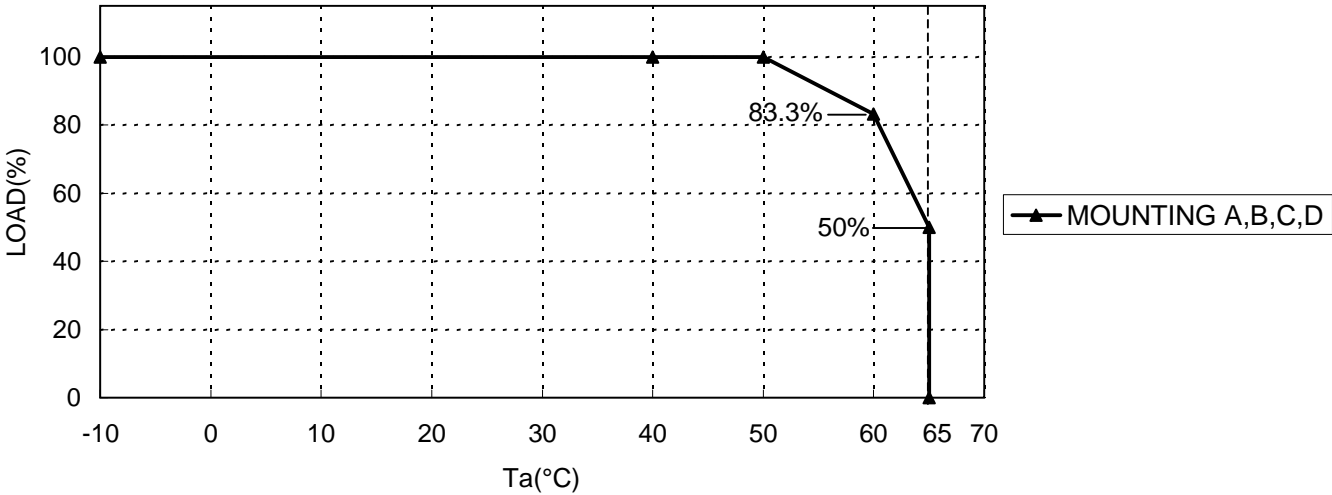


Measurement point for Vo Line/Load Regulation, and ripple and noise.

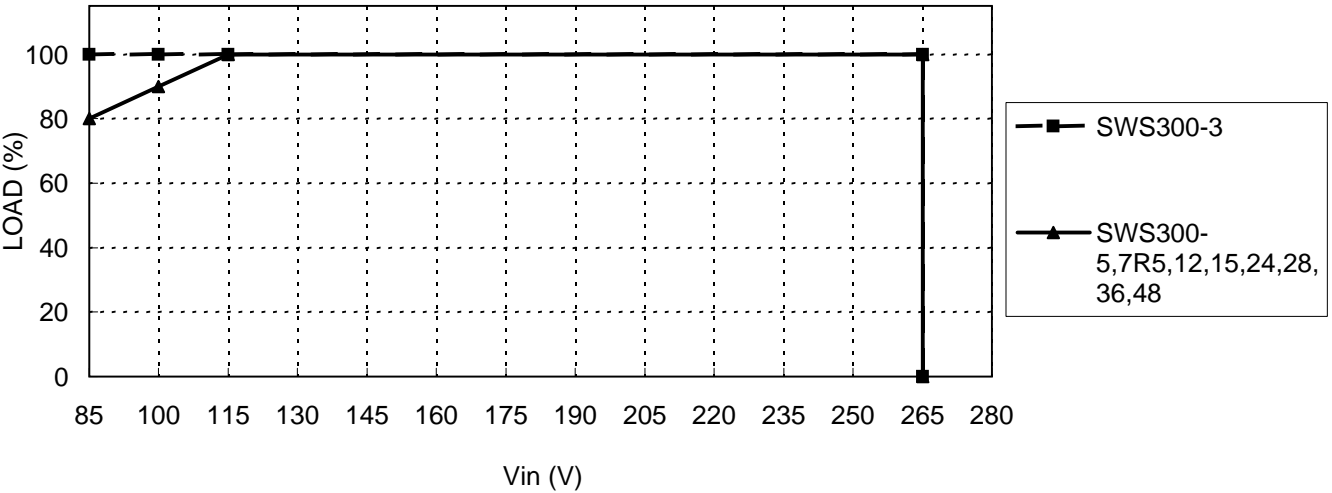
SWS300 OUTPUT DERATING

CA740-01-02C

SWS300 OUTPUT DERATING VS Ta CURVE



SWS300 OUTPUT DERATING VS INPUT VOLTAGE



MOUNTING A (STANDARD MOUNTING) **MOUNTING B** **MOUNTING C** **MOUNTING D** **DON'T USE**

