

# SWS600L / 1000L SERIES

AC / DC Single Output: 600 ~ 1000 Watts



## General Specifications

<b>Input Voltage</b>	85 ~ 264VAC / 120 ~ 350VDC
<b>Frequency</b>	47 ~ 63Hz
<b>Efficiency</b>	Model dependent 74 ~ 86%
<b>Input Current</b>	SWS600L: 7.1A / 3.6A (115 / 230V) SWS1000L: 12A / 6A (115 / 230V)
<b>Harmonics</b>	EN61000-3-2
<b>Power Factor</b>	0.95
<b>Output voltage</b>	3.3 ~ 60dc options
<b>Output Power</b>	600 ~ 1000 watts
<b>Voltage adjustment</b>	Typically $\pm 10\%$ by on-board trim pot. (refer to table)
<b>Ripple &amp; Noise</b>	Model dependent 160 ~ 240mV
<b>Line Regulation</b>	Model dependent typically 0.6%
<b>Load Regulation</b>	Model dependent typically 0.4%
<b>Temp Coefficient</b>	Less than 0.02% per °C
<b>Overload Protection</b>	Constant current limiting with auto recovery, set at approx 110% of rated output
<b>Overvoltage Protection</b>	Yes, OVP will shutdown output, manual reset by recycling AC input power after approx 2m
<b>Over Temperature Protection</b>	Yes, OTP will shutdown output, manual reset by recycling AC input power after approx 2m
<b>Hold-up Time</b>	Typically 20ms at nominal input voltage

## Features

- Universal input 85 - 265VAC
- New "low profile" 61mm, 600 and 1000W models
- Output voltage adjustment –Front Panel Trim pot
- Output voltage External Control (20% to +110%)
- Short circuit and OVP protection
- Harmonic correction EN61000-3-2
- Power Factor 0.95
- EMC EN55022, Immunity to EN61000-4
- International safety approvals EN60950, UL60950
- Some modes suitable for **Battery Charging**
- Medical approvals ( SWS1000L )
- Parallel operation and Remote ON /OFF

**Instruction Manual and application notes**  
available from our website.

<b>Leakage Current</b>	SWS600L: < 0.5mA at 230VAC SWS1000L: < 0.2mA at 230VAC
<b>Remote sense</b>	Yes (refer to manual)
<b>Remote ON/OFF</b>	Yes (refer to manual)
<b>Monitoring Signal</b>	ALM ( Open Collector Output ) refer to manual
<b>Parallel Operation</b>	YES, with power share
<b>Series Operation</b>	YES
<b>EMI</b>	EN55011 & EN55022-B
<b>Immunity</b>	EN61000-4-2
<b>Safety</b>	EN60950-1, UL60601-1 ( SWS1000L ), EN50178
<b>Isolation</b>	Input-Output: 3000VAC Output –Ground: 500VAC Input-Ground: 2000VAC
<b>Operating Temp</b>	-20°C to +50°C at 100% load, 50% at 74°C -40°C start up.
<b>Humidity</b>	20-90% RH ( No dewdrop )
<b>Cooling</b>	Built-in fan
<b>Shock &amp; Vibration</b>	Designed to meet MIL-STD-810F 514.5 Cat 4,10
<b>Connector</b>	Screw terminals
<b>Dimensions</b>	SWS600L: 221 x 120 x 61mm 1.6kg SWS1000L: 280 x 150 x 61mm 2.3kg ( W x D x H ) ( Includes extending terminals )

Model	Output		Voltage Range	Power W
	V	A		
<b>SWS600L-3</b>	3.0V	120A	2.64 ~3.96V	396W
<b>SWS600L-5</b>	5.0V	120A	4.0 ~ 6.0V	600W
<b>SWS600L-12</b>	12V	53A	9.6 ~14.4V	600W
<b>SWS600L-15</b>	15V	43A	12.0 ~19.0V	645W
<b>SWS600L-24</b>	24V	27A (31A)	19.2~ 28.8V	648W
<b>SWS600L-36</b>	36V	18A	28.8 ~ 43.2V	648W
<b>SWS600L-48</b>	48V	13A (15A)	38.4 ~ 56V	624W
<b>SWS600L-60</b>	60V	10A	48 ~ 66V	600W

• Figures in brackets @ 230VAC input peak A 10 sec

Model	Output		Voltage Range	Power W
	V	A		
<b>SWS1000L-3</b>	3.0V	200A	2.64 ~3.96V	660W
<b>SWS1000L-5</b>	5.0V	200A	4.0 ~ 6.0V	1000W
<b>SWS1000L-12</b>	12V	88A	9.6 ~14.4V	1056W
<b>SWS1000L-15</b>	15V	70A	12.0 ~19.0V	1050W
<b>SWS1000L-24</b>	24V	44A (51A)	19.2~ 28.8V	1056W
<b>SWS1000L-36</b>	36V	29A	28.8 ~ 43.2V	1044W
<b>SWS1000L-48</b>	48V	22A (25A)	38.4 ~ 56V	1056W
<b>SWS1000L-60</b>	60V	17A	48 ~ 66V	1020W

• Figures in brackets @ 230VAC input peak A 10 sec.

