

SWS600L / 1000L SERIES

AC / DC Single Output: 600 ~ 1000 Watts



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

General Specifications

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

Leakage Current	SWS600L: < 0.5mA at 230VAC SWS1000L: < 0.2mA at 230VAC
Remote sense	Yes (refer to manual)
Remote ON/OFF	Yes (refer to manual)
Monitoring Signal	ALM (Open Collector Output) refer to manual
Parallel Operation	YES, with power share
Series Operation	YES
EMI	EN55011 & EN55022-B
Immunity	EN61000-4-2
Safety	EN60950-1, UL60601-1 (SWS1000L), EN50178
Isolation	Input-Output: 3000VAC Output –Ground: 500VAC Input-Ground: 2000VAC
Operating Temp	-20°C to +50°C at 100% load, 50% at 74°C -40°C start up.
Humidity	20-90% RH (No dewdrop)
Cooling	Built-in fan
Shock & Vibration	Designed to meet MIL-STD-810F 514.5 Cat 4, 10
Connector	Screw terminals
Dimensions	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		
SWS600L-3	3.0V	120A	2.64 ~3.96V	396W
SWS600L-5	5.0V	120A	4.0 ~ 6.0V	600W
SWS600L-12	12V	53A	9.6 ~14.4V	600W
SWS600L-15	15V	43A	12.0 ~19.0V	645W
SWS600L-24	24V	27A (31A)	19.2~ 28.8V	648W
SWS600L-36	36V	18A	28.8 ~ 43.2V	648W
SWS600L-48	48V	13A (15A)	38.4 ~ 56V	624W
SWS600L-60	60V	10A	48 ~ 66V	600W

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

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

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

