

SWS300-600 SERIES

AC / DC Single Output: 300 - 600 Watts



SWS600

SWS300

Features

- Universal input 85 - 265VAC
- 300 and 600 watt power levels
- Output voltage adjustment
- 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**

[Instruction Manual](#) and [application notes](#) available from our website.

General Specifications

Input Voltage	85 ~ 264VAC (120 ~ 370VDC)
Input Current	SWS300: 3.6 ~ 1.8A @ 115 ~ 230VAC SWS600: 7.2 ~ 3.6A @ 115 ~ 230VAC
Power Factor	0.99 ~ 0.95 @ 115 ~ 230VAC
Harmonics	EN61000-3-2
Output Power	300 ~ 600 watts
Efficiency	Model dependent: 67 ~ 85%
Output Voltage	See table
Ripple & Noise	Model dependent: 100 ~240mV (3.3V ~ 48V output)
Line Regulation	Typically $\pm 0.4\%$
Load Regulation	Typically $\pm 0.6\%$
Temp Co-efficient	0.02% per °C
Overload Protection	Constant current limiting, with auto recovery
Overvoltage Protection	OVP will shutdown unit. Recycle AC power after 30 seconds to restart.
Over temperature Protection	OTP will shutdown unit. Recycle AC power after 30 seconds to restart

Hold-Up time	Typically 20ms
Parallel Operation	Yes with power share –SWS600 only
Remote Sense	SWS600 only
Remote ON/OFF	SWS600 only
Power Fail Signal	SWS600 only (Open Collector Output)
Indicator	LED for DC Ok
Operating Temp.	-10°C to +50°C @ 100% load, +65°C @ 50% load
Humidity	10 ~ 90% RH no dewdrop
Cooling	Forced air by internal fan
Isolation	Input – Output: 3000VAC Input – Case: 2000VAC Output – Case: 500VAC
Safety	Approvals to: UL60950, EN60950, CSA60950, EN50178
EMI	EN55011 / EN55022 – B
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11.
Weight	SWS300: 950g SWS600: 2Kg
Dimensions	SWS300: 210 x 102 x 52mm 950g (Includes terminals) SWS600: 210 x 120 x 92mm 2kg

Model	Output V	Output A	Voltage Range	Power W
SWS300-3	3.3V	55A	2.9 ~3.9V	181W
SWS300-5	5.0V	55A	4.5 ~ 6.0V	275W
SWS300-12	12V	26A	9.6 ~13.2V	312W
SWS300-15	15V	21A	13.20 ~18.6V	315W
SWS300-24	24V	13A	20.0~ 28.8V	313W
SWS300-36	36V	8.7A	28.8~40V	313W
SWS300-48	48V	6.7A	40.0 ~ 57.6V	320W

Model	Output V	Output A	Voltage Range	Power W
SWS600-3	3.3V	100A	2.9 ~3.9V	330W
SWS600-5	5.0V	100A	4.5 ~ 6.0V	500W
SWS600-12	12V	50A	9.6 ~13.2V	600W
SWS600-15	15V	40A	13.20 ~18.6V	600W
SWS600-24	24V	25A	20.0~ 28.8V	600W
SWS600-36	36V	16.7A	28.8~40V	600W
SWS600-48	48V	12.5A	40.0 ~ 57.6V	600W

