

Single Output General Purpose Power Supplies

Features

- ◆ Lower Cost
- ◆ Active Power Factor Correction
- ◆ Universal Input (85 - 265VAC)
- ◆ Input Transient Protected IEC61000-4
- ◆ Enclosed
- ◆ Global safety Approvals
- ◆ Level B EMI



Key Market Segments & Applications



Specifications			
Model		SWS300A	SWS600
Input Voltage range (1)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC*	
Inrush Current (115 / 230VAC)	A	20 / 40	
Power Factor	-	Meets EN61000-3-2	
Input Current (100/200VAC)	A	3.6 / 1.8A	7.2 / 3.6A
Temperature Coefficient	-	<0.02%/°C	
Overcurrent Protection	-	>105%, Constant current style	
Overvoltage Protection	V	Yes, cycle AC to reset	
Overtemperature Protection	-	Yes, cycle AC to reset	
Hold Up Time (Typ)	ms	20ms at 115/230VAC	
Leakage Current (max)	mA	SWS300: 0.75mA , SWS600: 1.5mA	
Remote Sense	-	None	Yes
Parallel Connection	-	None	Yes
Remote On/Off	-	None	Yes
AC Fail Signal	-	None	Yes, open collector output
LED Indicator	-	Green LED = On	
Operating Temperature	°C	-10 to +65°C (See table for derating - model specific)	
Storage Temperature	°C	-30 to +85°C	
Humidity (non condensing)	-	30 - 90% RH operating, 10 - 95%RH non operating	
Storage Humidity (non condensing)	-	10 - 95% RH	
Cooling	-	Internal fan	
Withstand Voltage	-	I/P to Grnd 2kVAC, I/P to O/P 3kVAC, O/P to Grnd 500VAC, O/P to CNT 100VAC for 1 min	
Isolation Resistance	-	>100M at 25°C & 70%RH, Output to Ground 500VDC	
Vibration (non operating)	-	10 - 55Hz (sweep for 1 min)19.6m/s ² constant X, Y, Z 1 hour each plane)	
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8, -11	
Safety Agency Approvals	-	UL60950, CSA60950, EN60950, EN50178, CE Mark	
Conducted & Radiated EMI	-	EN55011 / EN55022-B, FCC Class B	
Recommended EMI Filter	-	RSAL2006	RSAN2010
Weight (Typ)	g	950	2000
Size (WxHxD)	in	2.05 x 4.01 x 7.8"	3.62 x 4.72 x 7.48"
Warranty	yrs	Two Years	

(1) Derate linearly to 85% load from 115VAC to 85VAC input (derate to 90% load for SWS600-3 & -5)

*Safety certified for AC input only

Not Recommended For New Designs

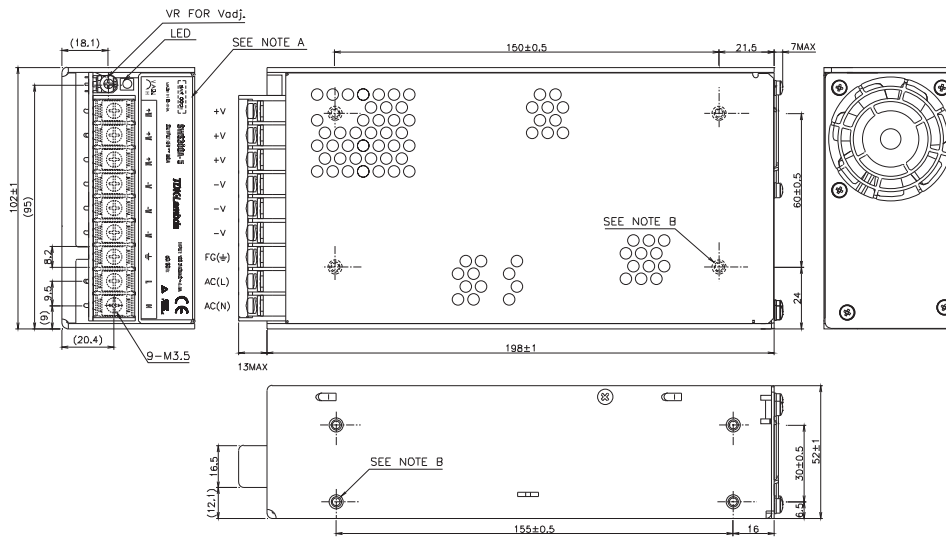
Model Selector

Model	Voltage	Adjust Range	Max Curr. (A)	Load Reg (mV)	Line Reg (mV)	Ripple Noise (mV)	Eff. (typ)%(1)
SWS300A-3	3.3V	2.97 - 3.96V	55A	40	20	120	69 / 72
SWS300A-4	4V	3.6 - 4.8V	55A	40	20	120	72 / 75
SWS300A-5	5V	4.5 - 6V	55A	40	20	120	75 / 78
SWS300A-7R5	7.5V	6 - 9V	40A	60	30	120	77 / 80
SWS300A-12	12V	9.6 - 13.2V	26A	96	48	120	79 / 83
SWS300A-15	15	13.2 - 18.6V	21A	120	48	120	80 / 84
SWS300A-24	24V	20 - 28.8V	13A	120	48	150	82 / 85
SWS300A-28	28V	22.4 - 33.6V	11A	140	56	150	83 / 86
SWS300A-36	36V	28.8 - 40V	8.8A	180	72	200	83 / 87
SWS300A-48	48V	40 - 57.6	6.7A	240	96	240	83 / 86
SWS600-3	3.3V	2.97-3.96V	100 (2)	40	20	100	69/71
SWS600-5	5V	4.5-6V	100 (2)	40	20	100	74/77
SWS600-12	12V	9.6-13.2	50	96	48	120	78/81
SWS600-15	15V	13.2-18V	40	120	48	120	80/83
SWS600-24	24V	20-28.8	25	120	48	150	81/84
SWS600-36	36V	28.8-40V	16.7	180	72	200	81/85
SWS600-48	48V	40-57.6	12.5	240	96	240	82/85

(2) Peak rating of 120A for 10s

(3) 115/230VAC

Outline Drawing (SWS300A)



NOTES

A: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.

B: M4 EMBOSSED, TAPPED AND COUNTERSUNK HOLES (8) FOR CUSTOMER CHASSIS MOUNTING. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 6mm/m.

Options

Suffix	Descriptor
/CO2	Double sided conformal coating

Other Industrial Products

HWS	15W to 1500W Single output, high reliability
SWS	50 - 1000W Single Output
ZWS	5 - 240W pcb style single, output

Derating

Model	50°C	55°C	60°C	65°C
SWS300A	100%	91.6%	83.3%	50%
SWS600	100%	85%	70%	55%

For Additional Information, please visit us.tdk-lambda.com/lp/products/sws-series.htm



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