

## Single Output General Purpose Power Supplies

### Features

- ◆ Low Cost
- ◆ Active Power Factor Correction
- ◆ Universal Input (85 - 265VAC)
- ◆ Input Transient Protected IEC61000-4
- ◆ SEMI F47 Certified (208VAC Input)
- ◆ Global safety Approvals
- ◆ Level B EMI



### Key Market Segments & Applications



Specifications				
Model	SWS300		SWS600	
Input Voltage range (1)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC		
Inrush Current (115 / 230VAC)	A	20 / 40 at 25°C, cold start		
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	3.3V: 4.1-5.3V, 5V: 6.25-7.5V, 12V: 13.8-16.8V 15V: 19.3-24.2V, 24V: 30-34.8V, 36V: 41.4-50.4V, 48V: 60-69.6V		
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, >4.5V to shutdown	
Power 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		
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 <sup>2</sup> constant X, Y, Z 1 hour each plane)		
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8, -11		
Safety Agency Approvals	-	UL60950-1, CSA60950-1, EN60950-1, EN50178, CE Mark, SEMI F47 (208VAC)		
Conducted & Radiated EMI	-	EN55011 / EN55022-B, FCC Class B		
Recommended EMI Filter	-	MC1206	MC1210	
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		

Notes:(1) Derate linearly to 80% load from 115VAC to 85VAC input (derate to 90% load for SWS600-5, no derating SWS300, 600-3)

## Model Selector

Model	Voltage	Adjust Range	Max Curr. (A)	Load Reg (mV)	Line Reg (mV)	Ripple Noise (mV)	Eff.(3) (typ)%
SWS300-3	3.3V	2.97-3.96V	55	40	20	120	67/70
SWS300-5	5V	4.5-6V	55	40	20	120	75/78
SWS300-12	12V	9.6-13.2V	26	96	48	120	77/80
SWS300-15	15V	13.2-18.6V	21	120	48	120	79/83
SWS300-24	24V	20-28.8V	13	120	48	150	80/84
SWS300-36	36V	28.8-40V	8.7	180	72	200	82/85
SWS300-48	48V	40-57.6V	6.7	240	96	240	82/85
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	9.6-13.2V	50	96	48	120	78/81
SWS600-15	15V	13.2-18.6V	40	120	48	120	80/83
SWS600-24	24V	20-28.8V	25	120	48	150	81/84
SWS600-36	36V	28.8-40V	16.7	180	72	200	81/85
SWS600-48	48V	40-57.6V	12.5	240	96	240	82/85

## Derating

Model	50°C	55°C	60°C	65°C
SWS300	100%	91.6%	83.3%	50%
SWS600	100%	85%	70%	55%

Additional derating required when operating SWS600 with side ventilation holes blocked - see installation manual.

## Options

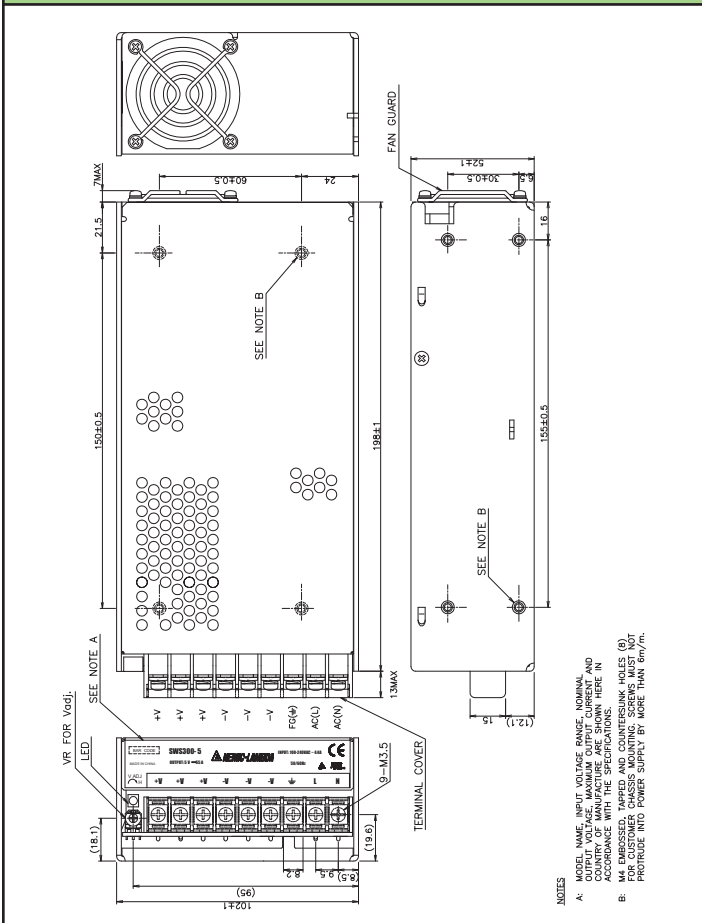
Suffix	Descriptor
/CO2	Double sided conformal coating

## Other Industrial Products

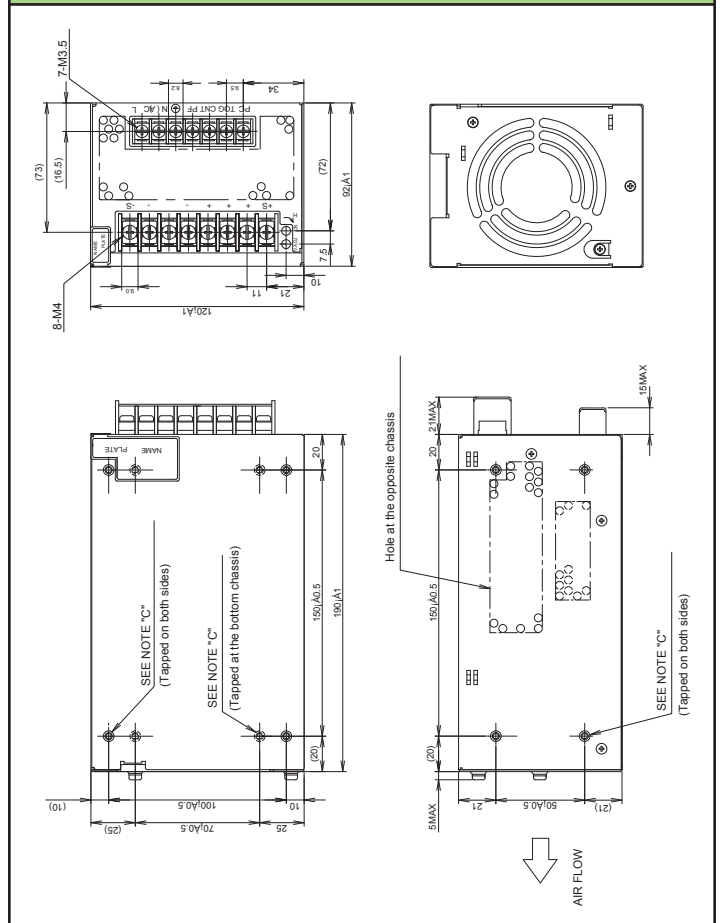
HWS	15-1500W Single Output, High Reliability
SWS	50-150W Single Output
ZWS	5-240W PCB style Single Output

Notes:  
 (2) Peak rating of 120A for 10s  
 (3) 115/230VAC

## SWS300 Outline Drawing



## Outline Drawing



For Additional Information, please visit [us.tdk-lambda.com/lp/products/sws-series.htm](http://us.tdk-lambda.com/lp/products/sws-series.htm)

