

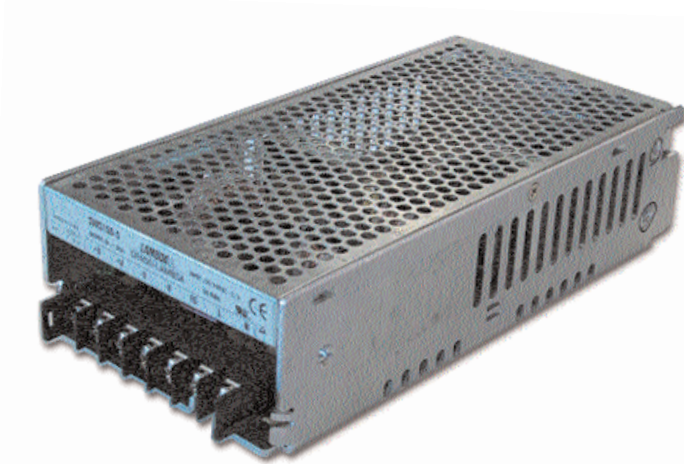
# SWS Series



## 50 to 150W, Single Output General Purpose Power Supplies

- ◆ Low Cost
- ◆ Active Power Factor Correction
- ◆ Universal Input (85 - 265VAC)
- ◆ Input Transient Protected IEC61000-4
- ◆ Enclosed

Key Market Segments & Applications	
Factory Automation	Process Control, NC-Machining, Automotive, Packaging Equipment, Materials Handling, Chemical Processing, Robots
Test & Measurement	Burn-in & Test, Automated Test, Instrumentation, Measurement, Detection
Automated Service	Vending Machines, Elevators, Video Gaming, Point of Sale Equipment



### SWS Features and Benefits

Feature	Benefit
◆ Meets IEC61000-4	◆ Greater Reliability
◆ Global Safety Approvals	◆ Supports Global Use
◆ Power Factor Corrected	◆ Supports Global Use
◆ Level B EMI	◆ Assists System Compliance

### Specifications

MODEL		SWS50	SWS75	SWS100	SWS150
ITEMS					
Input Voltage range (1)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC			
Inrush Current (100 / 200VAC)	A	15 / 30			
Power Factor	-	Meets EN61000-3-2			
Temperature Coefficient	-	<0.02%/°C			
Total Regulation	-	<5%			
Overcurrent Protection	-	>105%, Constant Current Style			
Overvoltage Protection	V	115 -135%, Cycle AC line to reset			
Hold Up Time (Typ)	ms	17ms at 100VAC	20ms at 100/200VAC		
Leakage Current (max)	mA	0.75			
Remote Sense	-	Not Available			
LED Indicator	-	Green LED = On			
Operating Temperature	-	-10 to +70°C (See table for derating - model specific)			
Storage Temperature	-	-30 to +85°C			
Operating Humidity (2)	-	30 - 90% RH			
Storage Humidity (2)	-	10 - 95% RH			
Cooling		Convection			
Withstand Voltage	-	Input to Ground 2kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.			
Isolation Resistance	-	>100M at 25C & 70%RH, Output to Ground 500VDC			
Vibration (non operating)	-	23.52m/s <sup>2</sup> (10 - 55Hz: 23.52m/s <sup>2</sup> constant sweep 1 min X, Y, Z for 1 hour)			
Shock	-	< 196.1 m/s <sup>2</sup> (20G)			
Safety Agency Approvals	-	UL601950, CSA60950, EN60950, CE Mark			
Conducted & Radiated EMI	-	EN55011 / EN55022-B, FCC Class B, VCCI-B			
Weight (Typ)	g	400	500	700	900
Size (WxHxD)	mm	92 x 37 x 159	94 x 43 x 170	96 x 45 x 188	99 x 51 x 198
Warranty	-	Two Years			

(1) Derate to 85% load below 100VAC input

(2) non condensing

## Model Selector

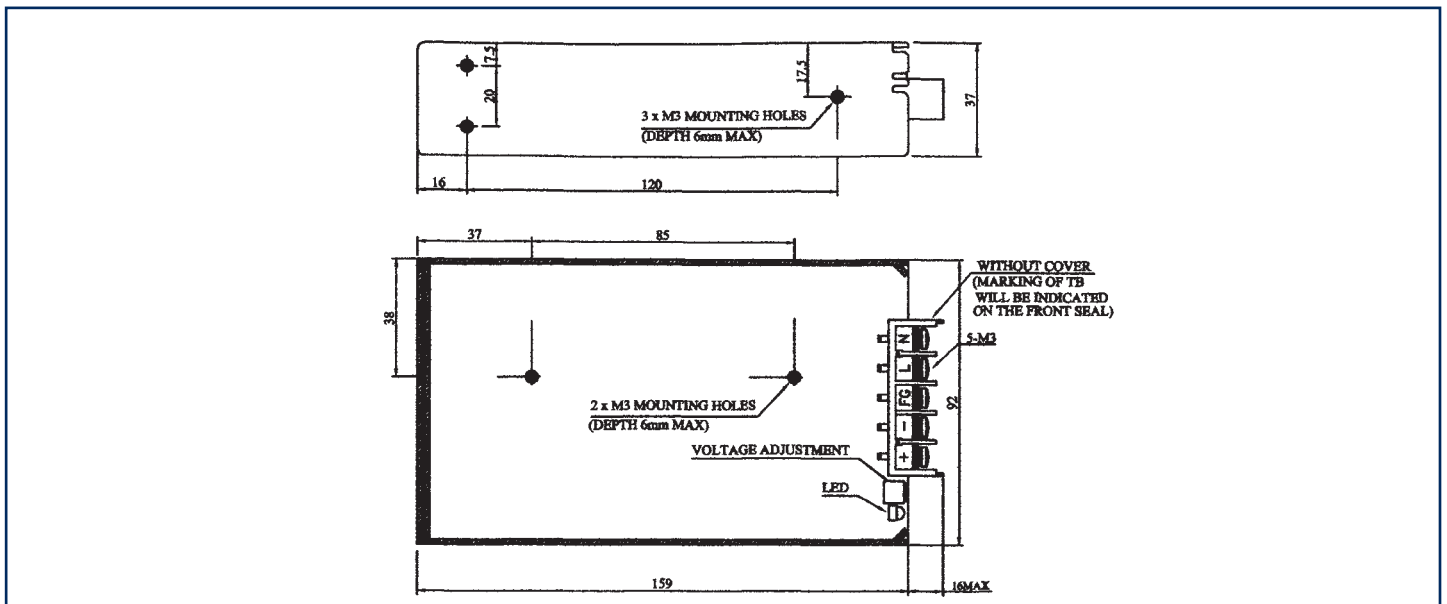
Model	Voltage	Adjust Range	Max Curr.	Load Reg mV	Line Reg mV	Ripple Noise	Eff. (typ)%
SWS50-5	5V	4.5-5.5V	10	40	20	120	77
SWS50-12	12V	10.8-13.2V	4.3	96	48	150	80
SWS50-24	24V	21.6-26.4V	2.1	144	96	200	82
SWS75-5	5V	4.5-5.5V	15	40	20	120	79
SWS75-12	12V	10.8-13.2V	6.3	96	48	150	80
SWS75-24	24V	21.6-26.4V	3.2	144	96	150	82
SWS100-5	5V	4.5-5.5V	20	40	20	120	75
SWS100-12	12V	10.8-13.2V	8.5	96	48	150	79
SWS100-24	24V	21.6-26.4V	4.3	144	96	150	81
SWS150-5	5V	4.5-5.5V	30	40	20	120	77
SWS150-12	12V	10.8-13.2V	12.5	96	48	150	79
SWS150-24	24V	21.6-26.4V	6.3	144	96	150	82

## De-Rating

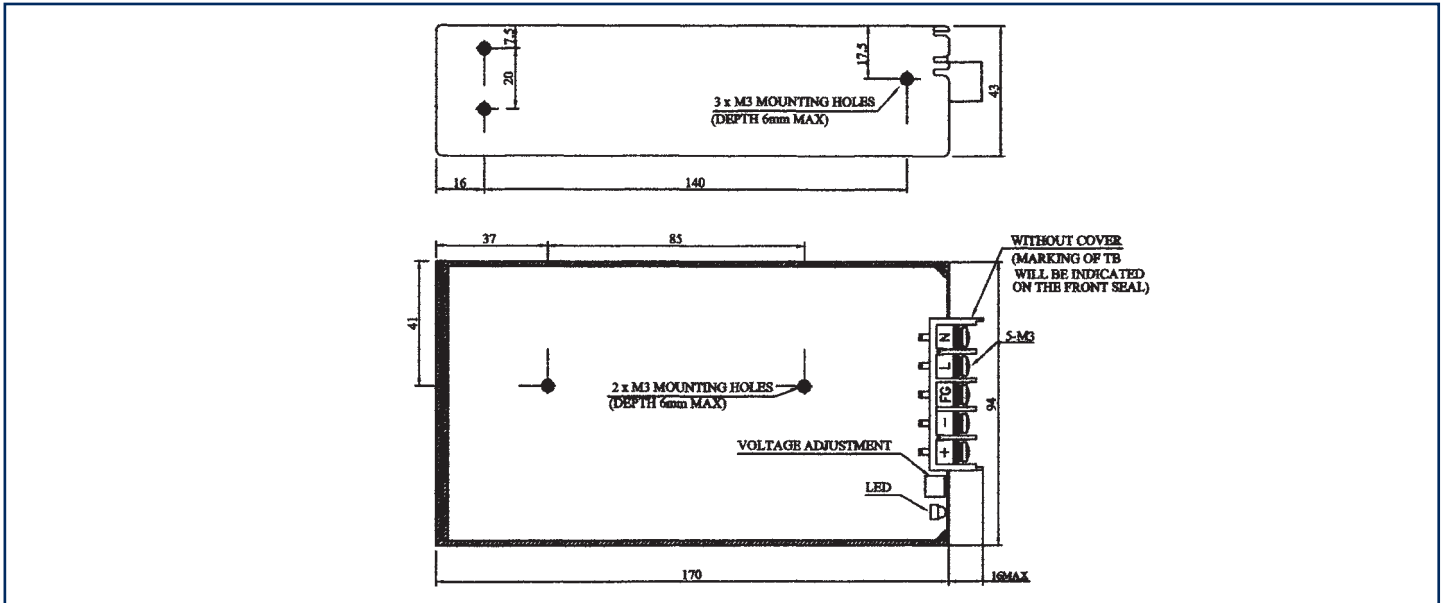
Horizontal Mounting	30°C	35°C	40°C	45°C	50°C	55°C	60°C
SWS50	100%	100%	100%	100%	80%	60%	-
SWS75							
(5V model)	100%	92%	83%	75%	67%	58%	50%
(12V & 24V models)	100%	100%	91%	82%	73%	64%	55%
SWS100	100%	100%	100%	100%	100%	80%	60%
SWS150	100%	100%	100%	100%	60%	-	-
Vertical Mounting	50°C	55°C	60°C	65°C	70°C		
SWS50	100%	80%	60%	-	-		
SWS75							
(5V model)	TBA						
(12V & 24V models)	TBA						
SWS100	100%	100%	90%	80%	70%		
SWS150	100%	60%	-	-	-		

Derate to 80% load from 0 to -10C

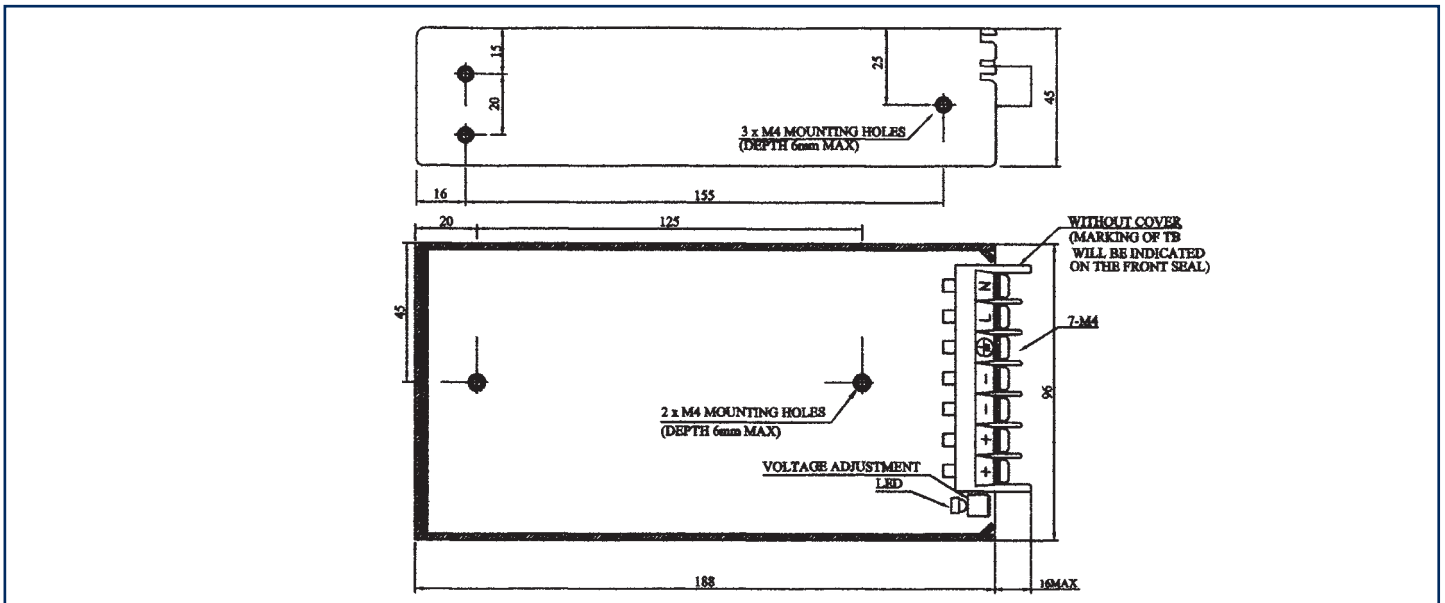
## SWS50 Outline Drawing



## SWS75 Outline Drawing



## SWS100 Outline Drawing



## SWS150 Outline Drawing

