

# 200 Watts





## SRW-200 Series

### Features

- Universal 85-264 VAC Input
- Compact 4.9" X 8.5" X 1.9" Size
- One To Five Outputs
- All Outputs Fully Regulated
- Remote Sense
- Class B Emissions Per EN 55022
- Optional Remote On/Off
- 2 Year Warranty
- EN 60950 ITE Certification



### Safety Specifications

General	Protection Class:	I
	Overvoltage Category:	II
	Pollution Degree:	2
 Underwriters Laboratories File E137708	UL1950, Third Edition	
 UL Recognition Mark for Canada File E137708	CAN/CSA-C22.2 No. 950-M95	
 TUV License B 99 12 30824 010	EN 60950/All:1997 VDE 0805	
	Low Voltage Directive	

### Model Listing

MODEL	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	OUTPUT 5
SRW-200-5001	+5V/25A	+24V/4A(6Apk)	+12V/3A(4Apk)	-5V/1A	-12V/2A
SRW-200-5002	+5V/25A	+24V/4A(6Apk)	+15V/3A(4Apk)	-5V/1A	-15V/2A
SRW-200-5003	+5V/25A	+12V/6A(8Apk)	-12V/3A(4Apk)	-5V/1A	+24V/2A
SRW-200-5004	+5V/25A	+15V/4A(6Apk)	-15V/3A(4Apk)	-5V/1A	+24V/2A
SRW-200-5005	+5V/25A	+24V/4A(6Apk)	24V/2A(3Apk)	-12V/1A	+12V/2A
SRW-200-5006	+5V/25A	+15V/4A (6Apk)	-15V/3A(4Apk)	24V/1A	24V/2A
SRW-200-5008(4)	+5V/25A	+12V/6A(8Apk)	12V/3A(4Apk)	-5V/1A	12V/2A
SRW-200-5012	+5V/25A	+8V/6A	+15V/3A	+18V/1A	-15V/2A
SRW-200-4001	+5V/25A	+12V/6A(8Apk)	-5V/4A		-12V/2A
SRW-200-4002	+5V/25A	+24V/4A(6Apk)	+12V/3A(4Apk)		-12V/2A
SRW-200-4003	+5V/25A	+24V/4A(6Apk)	+15V/3A(4Apk)		-15V/2A
SRW-200-4004	+5V/25A	+12V/6A(8Apk)	+24V/2A(3Apk)		24V/2A
SRW-200-4005	+12V/10A	-12V/6A(8Apk)	+5V/4A		12V/2A
SRW-200-4006	+24V/5A	+12V/6A(8Apk)	+5V/4A		-12V/2A
SRW-200-4007	+5V/25A	-5V/8A	+15V/3A(4Apk)		-15V/2A
SRW-200-4008	+5V/25A	-5V/8A	+12V/3A(4Apk)		-12V/2A
SRW-200-4009	+5V/25A	+12V/6A(8Apk)	-12V/3A(4Apk)		28V/1A
SRW-200-3001	+5V/25A	+12V/6A(8Apk)	-12V/3A(4Apk)		
SRW-200-3002	+12V/10A	-12V/6A(8Apk)	+5V/4A		
SRW-200-3003	+24V/5A	+15V/4A(6Apk)	-15V/3A(4Apk)		
SRW-200-2001	+5V/25A	+24V/4A(6Apk)			
SRW-200-2002	+12V/10A	-12V/6A(8Apk)			
SRW-200-2003	+15V/8A	-15V/4A(6Apk)			
SRW-200-2004	+24V/5A	+24V/4A(6Apk)			
SRW-200-1000	3V/60A				
SRW-200-1001	5V/40A				
SRW-200-1002	12V/17A				
SRW-200-1003	15V/13A				
SRW-200-1004	24V/8A				
SRW-200-1005	28V/7A				

All specifications are maximum at 25°C unless otherwise stated and are subject to change without notice.

### Output Specifications

Total Output Power	200W	
Output Voltage Centering	Output 1: ±0.5% Output 2: ±0.5% Output 3: ±0.5% Output 4: ±0.5% Output 5: ±0.5%	(All Outputs 50% Load)
Source Regulation	Outputs 1-5: 0.5%	
Load Regulation	Outputs 1: 0.5% (10-100% Load Change) Outputs 2: 0.5% (10-100% Load Change) Outputs 3: 0.5% (10-100% Load Change) Outputs 4: 0.5% (10-100% Load Change) Outputs 5: 0.5% (10-100% Load Change)	
Cross Regulation	Output 1: 0.5% Output 2: 0.5% Output 3: 0.5% Output 4: 0.5% Output 5: 0.5%	(Output 1 load varied 50-100%)
Output Voltage Adjust Span Resolution	Outputs 1-5: 95% to 105% 1%	
Output Noise	Source Freq. Outputs 1-5: 0.5% Switching Freq. Outputs 1-5: 1% Total (20MHz) Outputs 1-5: 1% (Output under test at 100% rated load)	
Turn On Overshoot	None	
Transient Response	Outputs 1-5	
Voltage Deviation	5%	
Recovery Time	2mS	
Load Change	50% To 100%	
Output Overvoltage Protection (Optional)	Output 1: 110% To 150% Shuts down all outputs Cycle input to restart	
Output Overcurrent Protection	110% Min., Outputs 2,3,4 & 5	
Overpower Protection	Output 1, 220 Watts Min., Outputs cycle on/off, auto recovery	
Hold Up Time	20ms Min, 200W Output 120V Input	
Start Up Time	1 Second	

### Input Specifications

Source Voltage	85 - 264 Volts Continuous
Frequency Range	47-63 Hz
Source Current	6A At 85V Input
True RMS	40A
Peak Inrush	
Efficiency	.68-.80 (Varies By Model)
Shock	Transient Drop per MIL-STD-810 E Method 516.4 Procedure IV
Vibration	MIL-STD-810E, Method 514.4, Category 1
Conducted Emissions	EN 55022 Class B

### Environmental Specifications

Ambient Operating Temperature Range	0° C to +50° C
Ambient Storage Temperature Range	-40° C To +85° C
Temperature Coefficient	Outputs 1-5: 0.02%/°C

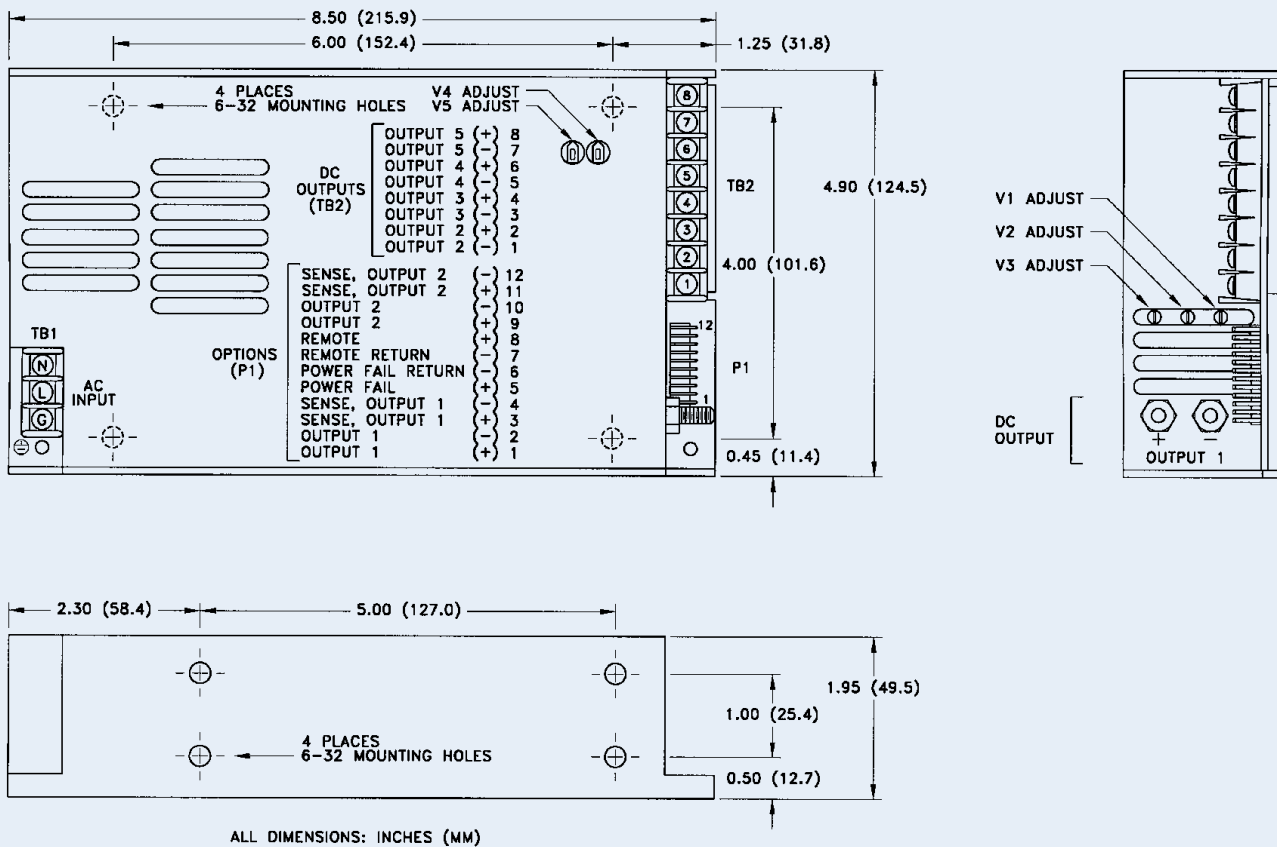
### General Specifications

Dielectric Strength	4250 VDC, Primary to Secondary, 1 Sec. 2150 VDC, Primary to Ground, 1 Sec. 500 VDC, Secondary to Ground, 1 Sec.
Remote On/Off (Optional)	Contact closure shuts off all outputs
Power Fail Signal	Logic low with input power failure 2mS minimum prior to output one dropping 1%
Remote Sense (Outputs 1 & 2)	250 mV compensation of output cable losses
Mean-Time Between Failures	80,000 Hours min., MIL-HDBK-217F, 25° C, GB
Weight	3.0 Lbs.

#### NOTES:

1. Consult factory for alternate output configurations.
2. Consult factory for positive, negative or floating outputs.
3. Specify optional overvoltage protection, power fail signal, remote on/off or internal fan when ordering.
4. TUV only.

# SRW-200 Series Mechanical Specifications



## AC Input Connector TB1:

- Terminal block with 6-32 screws on 0.325 inch centers mates with #6, 0.26 inch wide spade terminals.

## DC Output Connector TB2:

- Terminal block with 6-32 inch screws on 0.325 inch centers mates with #6, 0.26 inch wide spade terminals.

## DC Output Studs + and -:

- 10-32 threaded studs mate with #10 ring tongue terminals.

## Option/Sense Connector P1:

- .100 inch friction lock header mates with Molex 22-01-2127 or equivalent crimp terminal housing with Molex type 6459 or equivalent crimp terminal.

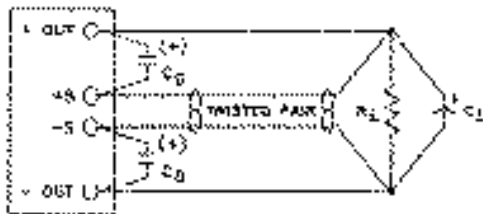


Figure 1- Output sense connections

## Applications Information

- This product is intended for use as a professionally installed component within information technology equipment.
- Remote sense terminals (Figure 1) may be used to compensate for cable losses up to 250mV. The use of a twisted pair is recommended as well as a decoupling capacitor  $C_D$  (0.1 - 10 $\mu$ F) and a capacitor  $C_L$  of 100 $\mu$ F/Amp connected across the load side.
- Each output can deliver its full rated current but total output power must not exceed 200 watts.
- A minimum load of 10% is required on output one to insure proper regulation of remaining outputs.
- To verify sufficient cooling, all semiconductors mounted to the chassis may not exceed 110° C.
- Peak current on output two is available for 10 seconds maximum with a 20% duty cycle.
- Peak to peak output ripple and noise is measured directly at the output terminals of the power supply, without the use of the probe ground lead or retractable tip, 20 MHz. bandwidth.
- The power supply has been safety approved and final tested using a DC dielectric strength test. Please consult factory before performing an AC dielectric strength test.
- Maximum screw penetration into chassis mounting holes is .188 inches.