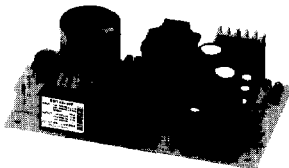


SWT Series

Low cost triple output power supplies



- Radiated & Conducted EMI per EN55022-B & FCC Class B**
- Universal AC Input**
- Full Power at 50°C with Convection Cooling**
- High Grade Components for Continuous Operation**
- Worldwide Safety Agency Approvals**
- Lambda's 2 Year Warranty**

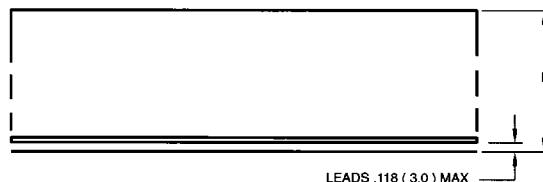
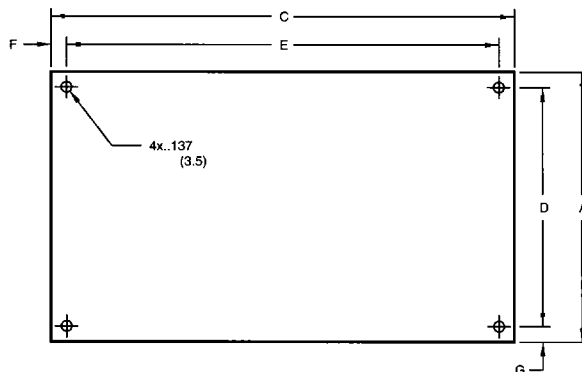
Lambda's SWT series of triple output PCB style power supplies have a continuous wide range or auto ranging AC input and EMI to curve B. Full power is available up to 50°C ambient without the need for forced air cooling.

Available in four Industry standard package sizes from 30-100 watts using high performance components, Lambda's SWT series will prove to be the economical choice for high reliability and quality, ensuring maximum up-time. The SWT has been designed with the global market in mind featuring world-wide safety approvals including: UL1950, CSA950, EN60950, Dentori and carries the CE Mark.

| Similar products |                           | Page |
|------------------|---------------------------|------|
| SV               | Greater than 100W         | 44   |
| ZW               | Single Outputs            | 14   |
| LWT              | Low Profile Chassis Mount | 20   |

|                                           |                                                                                                                                                              |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AC Input</b> .....                     | SWT30, SWT40 & SWT100: 85-265VAC, 47-63Hz. (110-340VDC)<br>SWT65: 85-132, 170-265VAC, 47-63 Hz (Autostrap).                                                  |
| <b>Efficiency</b> .....                   | At 100VAC, 100% load, 25°C ambient.<br>SWT30 & SWT40: 70%; SWT65: 72%;<br>SWT100: 74%.                                                                       |
| <b>Inrush Current Limiting</b> .....      | 25°C ambient, cold start.<br>SWT30, SWT40, SWT100, 15A at 100VAC, 30A at 200VAC.<br>SWT65, 30A at 100/200VAC.                                                |
| <b>EMI</b> .....                          | Conforms to EN55022 Curve B, FCC Class B, VCCI-II.                                                                                                           |
| <b>Output Adjustment</b> .....            | None.                                                                                                                                                        |
| <b>Line Regulation</b> .....              | +5V 1%, +12/15V 2%, -5/12/15V 1% 85-132 or 170-265VAC input change.                                                                                          |
| <b>Load Regulation</b> .....              | +5V 2%, +12/15V 4%, -5/12/15V 2%.<br>Minimum load to maximum load change.                                                                                    |
| <b>Minimum Load</b> .....                 | SWT30: +5V 0.2A, +12/15 0.4A; SWT40: +5V 0.2A, +12/15V 0.3A;<br>SWT65: +5V 0.3A, SWT100: +5V 0.5A.                                                           |
| <b>Ripple and Noise</b> .....             | ±5V 120mV, ±12 or ±15V 150mV.                                                                                                                                |
| <b>Hold-up Time</b> .....                 | 17ms at 100VAC, 25°C and maximum average output power.                                                                                                       |
| <b>Overcurrent Protection</b> .....       | Current limiting with automatic recovery. Avoid prolonged operation in overload or dead short.<br>SWT30: >170%; SWT40: >140%<br>SWT65: >105%; SWT100 > 105%. |
| <b>Overvoltage Protection</b> .....       | +5V output only. Output clamped by zener diode to ~6V.                                                                                                       |
| <b>Cooling</b> .....                      | Natural Convection.                                                                                                                                          |
| <b>Operating Temperature Range</b> .....  | -10°C to +60°C.<br>100% output at 50°C, derate linearly to 70% at 60°C.                                                                                      |
| <b>Storage Temperature</b> .....          | -20°C to +85°C.                                                                                                                                              |
| <b>Temperature Coefficient</b> .....      | 0.04% per °C.                                                                                                                                                |
| <b>Humidity</b> .....                     | 10% to 95% RH (non-condensing).                                                                                                                              |
| <b>Isolation</b> .....                    | Input to Output – 3.0 kVAC.<br>Input to Chassis(FG) – 2.5kVAC.<br>Output to Chassis(FG) – 500kVAC.                                                           |
| <b>Isolation Resistance</b> .....         | Output to Chassis(FG) > 100MΩ at 25°C and 70% RH.                                                                                                            |
| <b>Remote Sensing</b> .....               | None.                                                                                                                                                        |
| <b>Input and Output Connections</b> ..... | Molex. (Mating part #)                                                                                                                                       |
| <b>Safety Agency Approval</b> .....       | UL1950, CSA950, EN60950, Dentori, CE Mark.                                                                                                                   |
| <b>Options</b> .....                      | Code A (Add cover, additional deratings may apply).                                                                                                          |
| <b>Warranty</b> .....                     | 2 years.                                                                                                                                                     |

| POWER(W) | OUTPUT 1 | OUTPUT 2  | OUTPUT 3 | MODEL             |
|----------|----------|-----------|----------|-------------------|
| 29.5     | +5V@2A   | +12V@1.5A | -5V@.3A  | <b>SWT30-525</b>  |
| 31.6     | +5V@2A   | +12V@1.5A | -12V@.3A | <b>SWT30-522</b>  |
| 31.6     | +5V@2A   | +15V@1A   | -15V@.3A | <b>SWT30-5FF</b>  |
| 42.0     | +5V@3A   | +12V@2A   | -5V@.3A  | <b>SWT40-525</b>  |
| 42.0     | +5V@3A   | +15V@1.5A | -15V@.3A | <b>SWT40-5FF</b>  |
| 42.6     | +5V@3A   | +12V@2A   | -12V@.3A | <b>SWT40-522</b>  |
| 62.5     | +5V@6A   | +12V@2.5A | -5V@.5A  | <b>SWT65-525</b>  |
| 64.5     | +5V@6A   | +15V@1.8A | -15V@.5A | <b>SWT65-5FF</b>  |
| 66.0     | +5V@6A   | +12V@2.5A | -12V@.5A | <b>SWT65-522</b>  |
| 92.0     | +5V@8A   | +12V@4A   | -5V@.8A  | <b>SWT100-525</b> |
| 97.6     | +5V@8A   | +12V@4A   | -12V@.8A | <b>SWT100-522</b> |
| 100.0    | +5V@8A   | +15V@3.2A | -15V@.8A | <b>SWT100-5FF</b> |



| DIMENSION: |                  |                 |                  |                  |                   |                | WEIGHT LBS.     |     |
|------------|------------------|-----------------|------------------|------------------|-------------------|----------------|-----------------|-----|
| MODEL      | A                | B               | C                | D                | E                 | F              | G               |     |
| SWT30      | 3.00<br>(76.2)   | 1.20<br>(30.48) | 5.00<br>(127.0)  | 2.550<br>(64.77) | 4.550<br>(115.57) | 0.22<br>(5.58) | 0.22<br>(5.58)  | .20 |
| SWT40      | 3.00<br>(76.2)   | 1.40<br>(35.56) | 5.00<br>(127.0)  | 2.550<br>(64.77) | 4.550<br>(115.57) | 0.22<br>(5.58) | 0.22<br>(5.58)  | .25 |
| SWT65      | 3.50<br>(88.90)  | 1.77<br>(45.00) | 6.00<br>(152.40) | 3.100<br>(78.74) | 4.80<br>(121.92)  | 0.6<br>(15.24) | 0.175<br>(4.45) | .35 |
| SWT100     | 4.25<br>(107.95) | 1.77<br>(45.00) | 7.75<br>(196.85) | 3.750<br>(95.25) | 7.250<br>(184.15) | 0.25<br>(6.35) | 0.25<br>(6.35)  | .85 |

NOTE:  
1. DIMENSIONS ARE IN INCHES EXCEPT DIMENSIONS ( ) ARE IN MM.