

65 WATTS

SRW-65 SERIES AC-DC

FEATURES:

- RoHS Compliant
- Universal 85-264 VAC Input
- Compact 4.0" x 6.0" x 1.1" Size
- 2 Year Warranty
- Fits 1U Applications
- One to Four Outputs
- EN 60950-1 ITE Certification
- Class B Emissions per EN 55022
- Optional Chassis and Cover








OPEN FRAME



CHASSIS/COVER

SAFETY SPECIFICATIONS

| | |
|---|--|
| General | Protection Class: I Overvoltage Category: II Pollution Degree: 2 |
|  Underwriters Laboratories File E137708/E140259 | UL 60950-1 2 nd Edition, 2007 |
|  TECEE CB SCHEME | CB Certificate per IEC 60950-1/A2:2013 including all National Deviations |
|  UL Recognition Mark for Canada File E137708/E140259 | CAN/CSA-C22.2 No. 60950-1-07, 2 nd Edition |
|  TUV | EN 60950-1/A2:2013 |
|  CE | Low Voltage Directive (2014/35/EU of February 2014) RoHS Directive (Recast) (2011/65/EU of June 2011) |

MODEL LISTING

| MODEL NO. | OUTPUT 1 | OUTPUT 2 | OUTPUT 3 | OUTPUT 4 |
|-------------|------------|-----------|-----------|-----------|
| SRW-65-4001 | +5V/5A | -5V/3A | +12V/2A | -12V/2A |
| SRW-65-4002 | +5V/5A | +12V/1A | +12V/2A | -12V/2A |
| SRW-65-4003 | +5V/5A | +24V/1A | +12V/2A | -12V/2A |
| SRW-65-4004 | +5V/5A | -5V/3A | +15V/2A | -15V/2A |
| SRW-65-4005 | +5V/5A | +24V/1A | +12V/2A | -5V/2A |
| SRW-65-4006 | +5V/5A | +24V/1A | +15V/2A | -15V/2A |
| SRW-65-4007 | +5V/5A | +26V/1A | +15V/2A | -15V/2A |
| SRW-65-4008 | +5V/5A | +24V/1A | +12V/2A | -12V/2A |
| SRW-65-4009 | 5V/7.5A | +48V/.25A | +15V/1A | -15V/1A |
| SRW-65-4104 | +5V/4A | 5V/.25A | +15V/2.5A | 24V/.50A |
| SRW-65-3001 | +5V/5A | | +12V/3A | -12V/1A |
| SRW-65-3002 | +5V/7A | | +12V/2A | -12V/2A |
| SRW-65-3003 | +5V/7A | | +15V/2A | -15V/2A |
| SRW-65-3004 | +5V/5A | -5V/4A | +12V/2A | |
| SRW-65-3006 | +5.25V/6A | +15V/1A | +34V/1.5A | |
| SRW-65-2002 | +5V/7A | | +12V/3A | |
| SRW-65-2003 | +12V/3A | | | -12V/2.5A |
| SRW-65-2004 | +15V/2.5A | | | -15V/2A |
| SRW-65-2005 | +5V/7A | | +24V/1.5A | |
| SRW-65-2008 | +6V/5A | | | -6V/5A |
| SRW-65-1001 | +5V/13A | | | |
| SRW-65-1002 | +12V/5.4A | | | |
| SRW-65-1003 | +15V/4.3A | | | |
| SRW-65-1004 | +24V/2.7A | | | |
| SRW-65-1005 | +18V/3.6A | | | |
| SRW-65-1006 | +24V/3.33A | | | |
| SRW-65-1104 | +24V/3.33A | | | |
| SRW-65-1105 | +21V/3.1A | | | |

OUTPUT SPECIFICATIONS

| | | |
|--|-----------------------------|---|
| Total Output Power at 50°C | 65W | |
| Output Voltage Centering | Output 1: | ± 1.0% (All outputs at 50% load) |
| | Output 2: | ± 5.0% |
| | Output 3: | ± 5.0% |
| | Output 4: | ± 5.0% |
| Output Voltage Adjust Range | Output 1: | 95 - 105% |
| Load Regulation | Output 1: | 1.0% (10-100% load change) |
| | Output 2: | 5.0% (20-80% load change) |
| | Output 3: | 5.0% (20-80% load change) |
| | Output 4: | 5.0% (20-80% load change) |
| Source Regulation | Outputs 1 - 4: | 0.5% |
| Cross Regulation | Output 2: | 5.0% (Output 1 load varied 50-100%) |
| | Output 3: | 5.0% |
| | Output 4: | 5.0% |
| Output Noise | Outputs 1 - 4: | 1.0% |
| Turn on Overshoot | None | |
| Transient Response | Outputs 1 - 4: | |
| Voltage Deviation | | 5.0% |
| Recovery Time | | 2 mS |
| Load Change | | 50% to 100% |
| Output Overvoltage Protection (optional) | Output 1: | 110% to 150% |
| Output Overpower Protection | Outputs 1-4: | 110% Min. Outputs cycle on/off, auto recovery |
| Hold Up Time | 16 mS min., 65W, 120V Input | |
| Start Up Time | 1 Second | |

INPUT SPECIFICATIONS

| | |
|-----------------|---------------------------|
| Source Voltage | 85 - 264 Volts AC |
| Frequency Range | 47 - 63 Hz |
| Source Current | |
| True RMS | 1.5A at 85V Input |
| Peak Inrush | 40 A |
| Efficiency | .72-.80 (Varies by model) |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------------|----------------------------------|
| Ambient Operating | 0° C to + 50° C |
| Temperature Range | Derating: See Power Rating Chart |
| Ambient Storage Temp. Range | - 40° C to + 85° C |
| Temperature Coefficient | Outputs 1 - 4: 0.02%/°C |
| Conducted Emissions | EN 55022 Class B |

GENERAL SPECIFICATIONS

| | |
|------------------------------|---|
| Dielectric Strength(7) | |
| Reinforced Insulation | 4242 VDC, Primary to Secondary, 1 Sec. |
| Basic Insulation | 2121 VDC, Primary to Ground, 1 Sec. |
| Operational Insulation | 500 VDC, Secondary to Ground, 1 Sec. |
| Power Fail Signal (optional) | Logic low with input power failure, 2mS minimum prior to output 1 dropping 1% |
| Mean-Time Between Failures | 150,000 Hours min., MIL-HDBK-217F, 25° C, GB |
| Weight | 0.80 Lbs. Open Frame 1.65 Lbs. Chassis and Cover |

NOTES

Consult factory for alternate output configurations.
Consult factory for positive, negative or floating outputs.
Refer to Applications Information for complete output power ratings.
All specifications are maximum at 25° C, 65W unless otherwise stated, may vary by model and are subject to change without notice.
TUV only: SRW-65-2008

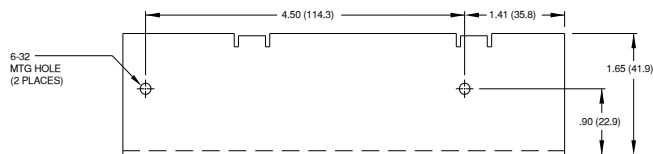
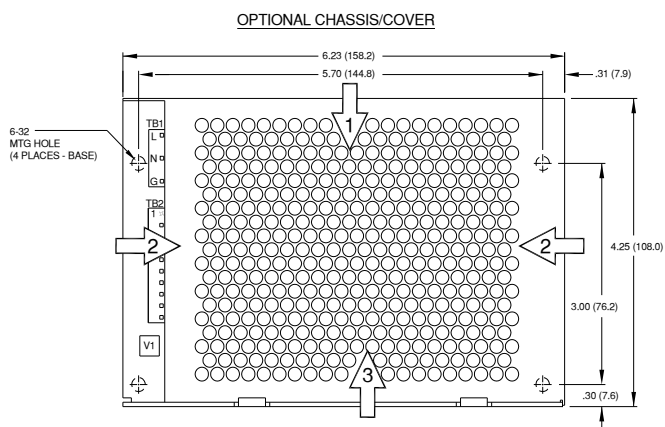
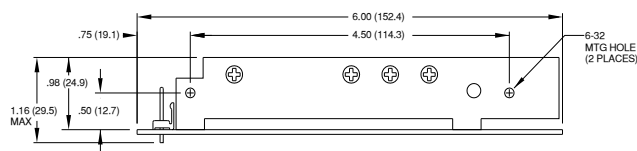
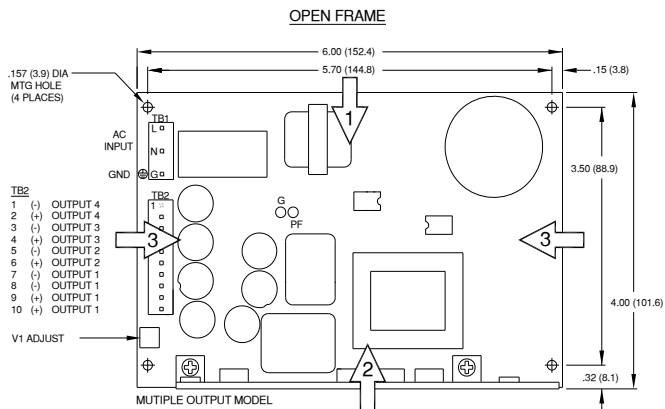
ORDERING INFORMATION

Other output configurations available (consult factory)

Please specify the following optional features when ordering:

| | |
|-----------------|------------------------------|
| CH - Chassis | TS - Terminal Strip |
| CO - Cover | I/O - Isolated outputs |
| PF - Power Fail | OVP - Overvoltage protection |

SRW-65 SERIES MECHANICAL SPECIFICATIONS

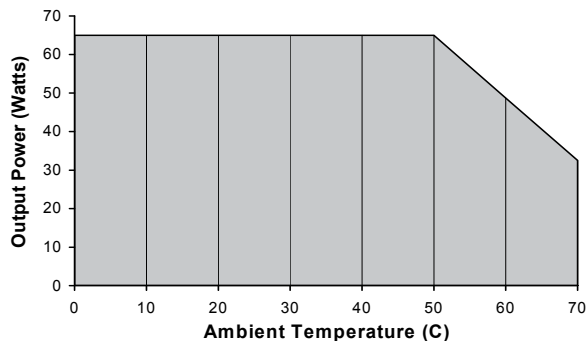


ALL DIMENSIONS IN INCHES (MM)

APPLICATIONS INFORMATION

- Each output can deliver its rated load but total output power must not exceed 65 watts.
- Semiconductor case temperatures must not exceed 110°C.
- Sufficient area must be provided around convection cooled power supplies to allow natural movement of air to develop.
- This product is intended for use as a professionally installed component within information technology.
- A minimum load of 20% is required on output one to insure proper regulation of remaining outputs.
- 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.
- This product was type tested and safety certified using the dielectric strength test voltages listed in Table 5B of UL 60950-1. In consideration of Clause 5.2.2, care must be taken to insure that the voltage applied to a reinforced insulation does not overstress basic insulation. Secondary to ground capacitors may need to be removed prior to performing a dielectric strength type test on the end product. It is highly recommended that the DC equivalent test voltages be used when performing a production-line dielectric strength test of the assembled end product. Please consult factory for further information.
- This power supply has been safety approved and final tested using a DC dielectric strength. Please consult factory before performing an AC dielectric strength test.
- Maximum screw penetration into mounting holes is .250 inches.

MAXIMUM OUTPUT POWER VS. AMBIENT TEMPERATURE



CONNECTOR SPECIFICATIONS

| | |
|----------------|--|
| TB1/G AC Input | .156 friction lock header mates with Molex 09-50-3051 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal. |
| TB2 DC Output | .156 friction lock header mates with Molex 09-50-3101 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal. |
| PF | Optional power fail signal. |
| G | Optional power fail signal return. |

RECOMMENDED AIR FLOW DIRECTION

- 1 – Optimum 2 – Good 3 – Fair