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# 35 WATTS

## SRP-30/35A SERIES AC-DC

### FEATURES:

- **RoHS Compliant**
- **Universal 85-264 VAC Input**
- **Advanced SMT Design**
- **Compact 3.0" x 6.0" x 2.0" Size**
- **2 Year Warranty**
- **UL listed**
- **One to Four Outputs**
- **EN 60950-1 ITE Certification**
- **Class B Emissions per EN 55011/22**
- **EN 60601-1 Medical Certification**
- **EMC to EN 61000-6-2 & EN 60601-1-2**



## SAFETY SPECIFICATIONS

| | | |
|---|---|---|
| General | | Protection Class: I<br>Overvoltage Category: II<br>Pollution Degree: 2 |
| | Underwriters Laboratories File E140259 | UL 60601-1 1st Edition, 2006<br>AAMI/ANSI ES 60601-1,2005 (R) 2012 |
| | | CB Reports/Certificates (including all National and Group Deviations)<br>IEC 60950-1/A2:2013<br>IEC 60601-1:1988 +A1:1991 +A2:1995<br>IEC 60601-1:2005/A1:2012 |
| | File E137708 | UL 60950-1 2nd Edition, 2007<br>CAN/CSA-C22.2 No. 60950-1-07, 2nd Edition |
| | UL Recognition Mark for Canada File E140259 | CAN/CSA-C22.2 No. 601-1-M90, 2005<br>CAN/CSA-C22.2 No. 60601-1:2014 |
| | TUV | EN 60950-1/A2:2013<br>EN 60601-1/A2:1995<br>EN 60601-1:2006/A1:2012 |
| | Low Voltage Directive<br>EMC Directive<br>RoHS Directive (Recast) | (2014/35/EU of February 2014)<br>(204/108/EC of 31 December 2004)<br>(2011/65/EU of June 2011) |

## MODEL LISTING

| MODEL NO. | OUTPUT 1 | OUTPUT 2 | OUTPUT 3 | OUTPUT 4 | P MAX |
|---|---|---|---|---|---|
| SRP-30A-4001 | +3.3V/3A | +5V/2A | +12V/.35A | -12V/.35A | 28W |
| SRP-30A-4002 | +5V/3A | +3.3V/2A | +12V/.35A | -12V/.35A | 30W |
| SRP-30A-4003 | +5V/3A | -5V/2A | +12V/.35A | -12V/.35A | 30W |
| SRP-30A-4004 | +5V/3A | -5V/2A | +15V/.35A | -15V/.35A | 30W |
| SRP-30A-4005 | +5V/3A | +24V/.75A | +12V/.35A | -12V/.35A | 30W |
| SRP-30A-4006 | +5V/3A | +24V/.75A | +15V/.35A | -15V/.35A | 30W |
| SRP-30A-3001 | +5V/3A | +12V/1.5A | -12V/.50A | | 30W |
| SRP-30A-3002 | +5V/3A | +15V/1.5A | -15V/.50A | | 30W |
| SRP-30A-2001 | +5V/3A | +24V/.75A | | | 30W |
| SRP-30A-2002 | +5V/3A | +12V/1.5A | | | 30W |
| SRP-30A-2003 | +5V/3A | -5V/3A | | | 30W |
| SRP-30A-2004 | +12V/1.5A | -12V/1.5A | | | 30W |
| SRP-30A-2005 | +15V/1.5A | -15V/1.5A | | | 30W |
| SRP-30A-1001 | 3.3V/9A | | | | 30W |
| SRP-35A-1002 | 5V/7A | | | | 35W |
| SRP-35A-1003 | 12V/2.9A | | | | 35W |
| SRP-35A-1004 | 15V/2.3A | | | | 35W |
| SRP-35A-1005 | 24V/1.45A | | | | 35W |
| SRP-35A-1006 | 48V/0.73A | | | | 35W |

## ORDERING INFORMATION

Please specify the following optional features when ordering:

I/O - Isolated outputs

## OUTPUT SPECIFICATIONS

| | | | |
|---|---|---|---|
| Total Output Power | 28-35W | Model Dependent | |
| Output Voltage Centering | Output 1: | ± 0.25% | (All outputs at 50% load) |
| | Output 2: | ± 5.0% | |
| | Output 3: | ± 3.0% | |
| | Output 4: | ± 3.0% | |
| Load Regulation | Output 1: | 7.0% | (0-100% load change) |
| | (1001) | 10.0% | (0-100% load change) |
| | (4001) | 12.0% | (0-100% load change) |
| | (Remote Sense) | 0.5% | (0-100% load change) |
| | Output 2: | 5.0% | (30-100% load change) |
| | (4001,3 & 4) | 10.0% | (30-100% load change) |
| | (2003,4002) | 12.0% | (30-100% load change) |
| | Output 3: | 1.0% | (0-100% load change) |
| | Output 4: | 1.0% | (0-100% load change) |
| Cross Regulation | Output 2: | 5.0% | (Output 1 load varied 50-100%) |
| | Output 3: | 0.5% | |
| | Output 4: | 0.5% | |
| Source Regulation | Outputs 1 – 4: | 0.5% | |
| 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 | Output 1: | 110% to 150% | |
| Output Overcurrent Protection | Outputs 3 & 4: | 110% Min. | |
| Output Overpower Protection | Outputs 1 & 2 | 110% Min. | |
| | Outputs cycle on/off, auto recovery | | |
| Hold Up Time | 12 mS min., 28-35W Output, 120V Input | | |
| Start Up Time | 1 Second | | |

## INPUT SPECIFICATIONS

| | |
|---|---|
| Source Voltage | 85 – 264 Volts AC |
| Frequency Range | 47 – 63 Hz |
| Source Current | |
| True RMS | 1A at 85V Input |
| Peak Inrush | 30 A |
| Efficiency | .66 - .80(Varies by model) |

## ENVIRONMENTAL SPECIFICATIONS

| | |
|---|---|
| Ambient Operating Temperature Range | 0° C to + 70° C<br>Derating: See Power Rating Chart |
| Ambient Storage Temp. Range | - 40° C to + 85° C |
| Temperature Coefficient | Outputs 1 – 34 0.02%/°C |
| Vibration | MIL-STD-810E, Method 514.4, Category 1. |
| Shock | Transit Drop per MIL-STD-810E, Method 516.4, Procedure IV |

## GENERAL SPECIFICATIONS

| | |
|---|---|
| Means of Protection | |
| Primary to Secondary | 2MOPP (Means of Patient Protection) |
| Primary to Ground | 1MOPP (Means of Patient Protection) |
| Secondary to Ground | Operational Insulation(Consult factory for 1MOOP or 1MOPP) |
| Dielectric Strength(6) | |
| Reinforced Insulation | 5656 VDC, Primary to Secondary, 1 Sec. |
| Basic Insulation | 2545 VDC, Primary to Ground, 1 Sec. |
| Operational Insulation | 707 VDC, Secondary to Ground, 1 Sec. |
| Leakage Current | |
| Earth Leakage | <300uA NC, <1000uA SFC |
| Touch Current | <100uA NC, <500uA SFC |
| Mean-Time Between Failures | 100,000 Hours min., MIL-HDBK-217F, 25° C, GB |
| Weight | 1.60 Lbs. |

## ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS

| | | |
|---|---|---|
| Electrostatic Discharge | EN 61000-4-2 | ±8kV Contact/ ±8kV Air Discharge |
| Radiated Electromagnetic Field | EN 61000-4-3 | 80MHz-2.5GHz, 10V/m, 80% AM |
| EFT/Bursts | EN 61000-4-4 | ±2 kV |
| Surges | EN 61000-4-5 | ±1kV Differential Mode<br>±2 kV Common Mode |
| Conducted Immunity | EN 61000-4-6 | .15 to 80MHz, 3V, 80% AM |
| Voltage Dips and Interruptions | EN 61000-4-11 | 30% Reduction, 500ms<br>95% Reduction, 10ms<br>60% Reduction, 1s (Criteria B)<br>95% Reduction, 500ms |
| Radiated Emissions | EN 55011/22 | Class B |
| Conducted Emissions | EN 55011/22 | Class B |

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## SRP-30/35A SERIES MECHANICAL SPECIFICATIONS

DETAIL A
SINGLE OUTPUT
8 PIN DIN

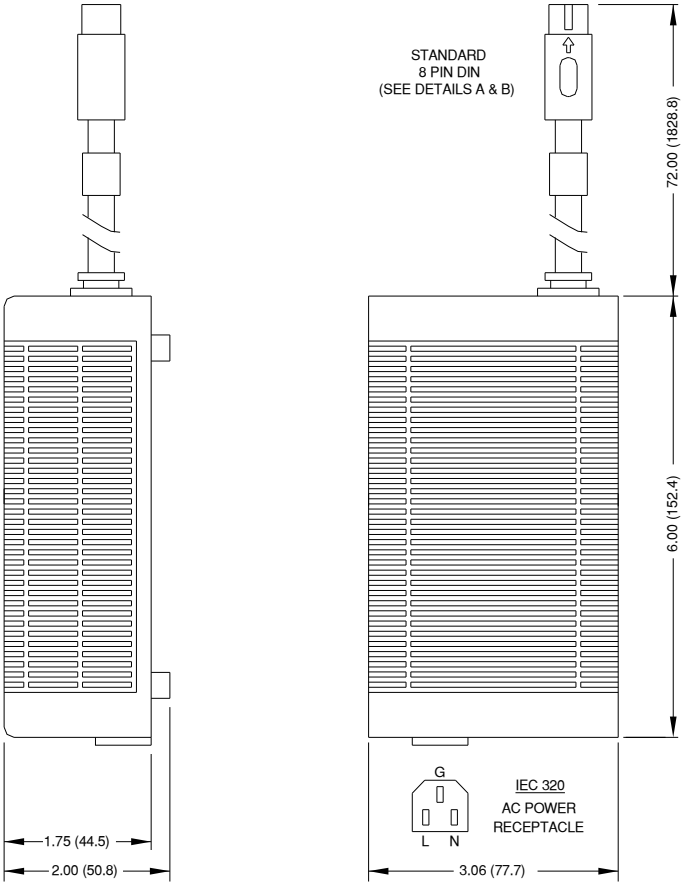



| | | |
|---|---|---|
| 8 | (+) | SENSE |
| 7 | (+) | OUTPUT 1 |
| 6 | (+) | OUTPUT 1 |
| 5 | (+) | OUTPUT 1 |
| 4 | (-) | OUTPUT 1 |
| 3 | (-) | OUTPUT 1 |
| 2 | (-) | OUTPUT 1 |
| 1 | (-) | SENSE |

DETAIL B
MULTIPLE OUTPUT
8 PIN DIN




| | | |
|---|---|---|
| 8 | (-) | OUTPUT 1 |
| 7 | (+) | OUTPUT 1 |
| 6 | (-) | OUTPUT 2 |
| 5 | (+) | OUTPUT 2 |
| 4 | (-) | OUTPUT 3 |
| 3 | (+) | OUTPUT 3 |
| 2 | (-) | OUTPUT 4 |
| 1 | (+) | OUTPUT 4 |

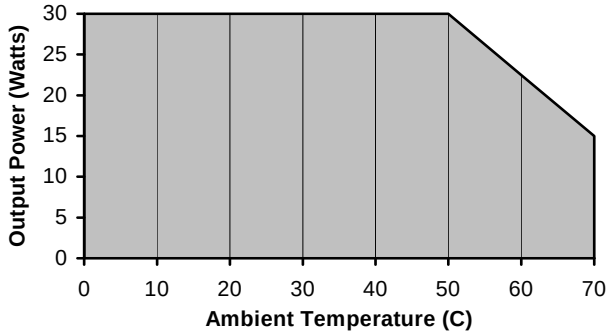



ALL DIMENSIONS: INCHES (MM)

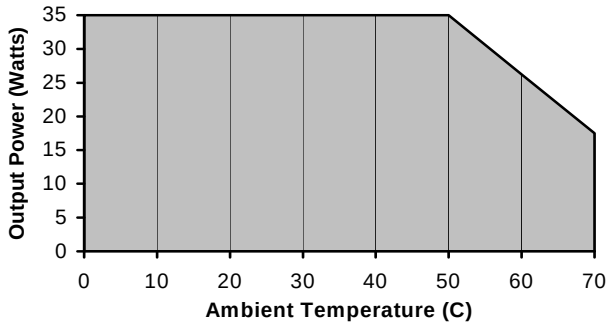
## APPLICATIONS INFORMATION

1. Each output can deliver its rated current but total power must not exceed 28-35 watts depending on model.
2. Sufficient area must be provided around convection cooled power supplies to allow natural movement of air to develop.
3. A minimum load of 10% is required on output one to ensure proper regulation of remaining outputs.
4. Remote sense terminals 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 (0.1 - 10μF) and a capacitor of 100μF/amp connected across the load side.
5. Peak to peak output ripple and noise is measured directly across a 1μF ceramic capacitor at the output terminals of the power supply cord, without the use of the probe ground lead or retractable tip, 20 MHz bandwidth.
6. This product was type tested and safety certified using the dielectric strength test voltages listed in Table 6 of IEC 60601-1:2005. In consideration of Clause 8.8.3, care must be taken to insure that the voltage applied to a reinforced insulation does not overstress different types and levels of insulation. Primary and secondary to ground capacitors may need to be disconnected prior to performing a dielectric strength test on the power supply or the end product. It is highly recommended that the DC test voltages listed in DVB.1, Annex DVB of UL 60601-1 1st Edition are not exceeded during a production-line dielectric strength test of the assembled end product. Please consult factory for further information.
7. This 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 OUTPUT POWER VS. AMBIENT TEMPERATURE (30W)




## MAXIMUM OUTPUT POWER VS. AMBIENT TEMPERATURE (35W)




## CONNECTOR SPECIFICATIONS

| | |
|---|---|
| AC Input | IEC 320 AC Power Receptacle |
| DC Output | 8 pin connector mates with Power Dynamics 8 pin din socket #DS-048 |

## NOTES

Consult factory for alternate output configurations.
Consult factory for positive, negative or floating output 2.
Refer to Applications Information for complete output power ratings.
All specifications are maximum at 25° C, 35W unless otherwise stated, may vary by model and are subject to change without notice.

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