

Prem's **SPW-2100 Series** is a group of 6.0VA, International-Capable, Low Profile, PC mount transformers with dual 115/230V primaries and dual secondaries that are designed to be used in low power applications where minimum height is required. They provide the high isolation, creepage, and clearance distances required to comply with many international safety standards.

- Dual primaries & dual secondaries: Must be series or parallel connected
- Insulation system: Class B (130°C), UL 1446 (File E85315)
- Dielectric strength: 4500Vrms primary to secondary
- UL94V-0-rated bobbin & shroud
- Shrouded primary & three flange bobbin design; no electrostatic shield required
- Anchor, insulating, and crossover tapes plus two distinct, separate windings for each primary & secondary assure excellent dielectric strength capabilities
- 100% final tested: Every transformer is tested on automated panels for induced voltage (shorted turns), exciting current, open circuit voltage (turns ratio), polarity (phasing), and dielectric strength
- Immersed in 100% solids epoxy resin to withstand most aqueous and solvent cleaning systems
- Also available: Pin-out compatible **SPW-3100 (Economy) Series**
- Also available: Domestic, UL/CSA approved, & pin-out compatible **SPW-100 Series**
- Other primary and secondary voltages may be custom designed to your specifications

SPW-2100 Series (6.0VA) Data Sheet

AGENCY CERTIFICATIONS:

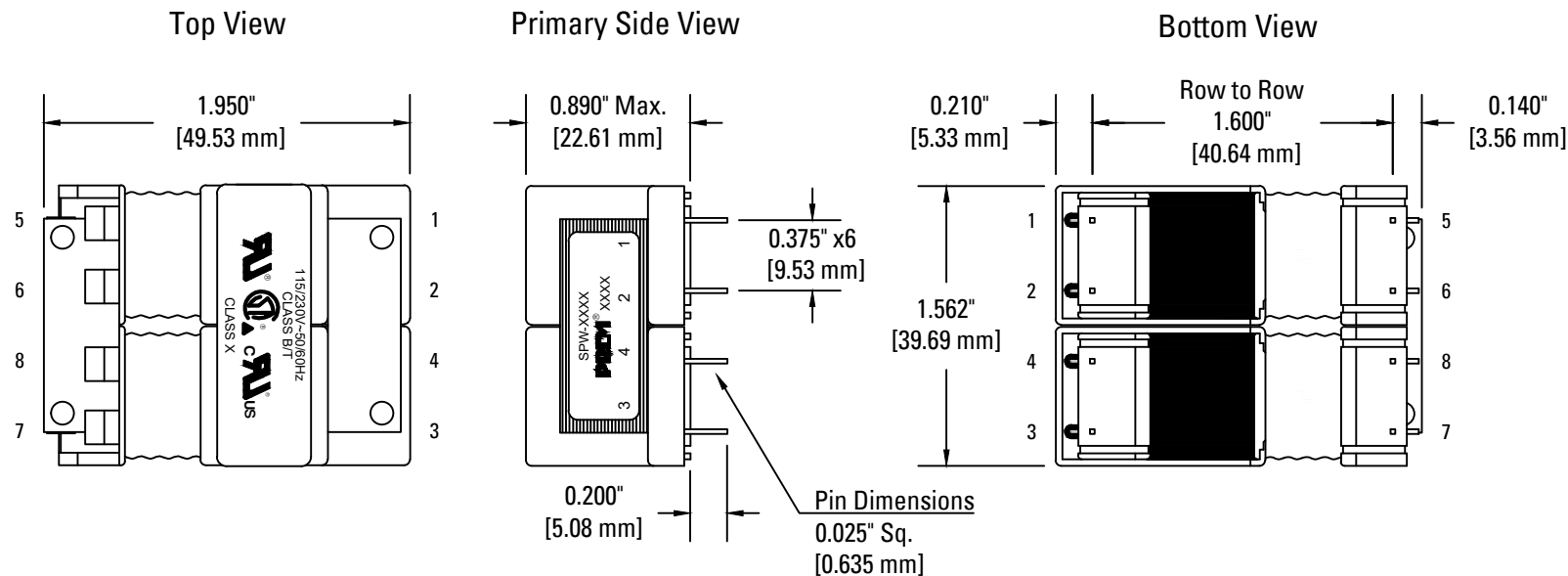
UL 1446 (File E85315)

UL 1950 (File E125106)

UL 1585/5085-3 Class 2 & 3:
SPW-2100 to -2107, &
SPW-2111 (File E125107)

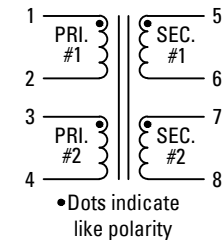
cUL: UL tested to CAN/CSA
C22.2 No. 234-M90
(File E125106), &
C22.2 No. 66.1-06, 66.3-06
(Class 2): SPW-2100 to
-2102 (File 125107)

CSA: C22.2 No. 950-95
(File 063944)



All dimensions for reference only.

Schematic



PRIMARY AND SECONDARY WINDINGS ARE DESIGNED TO BE USED AS ONE PRIMARY AND ONE SECONDARY WINDING WITH EITHER SERIES OR PARALLEL CONNECTIONS ONLY.

Input Voltage 1-4 (tie 2-3): 230V @ 50/60Hz
Input Voltage 1-4 (tie 1-3, 2-4): 115V @ 50/60Hz

Secondary Series Connections: Tie 6-7; output 5-8
Secondary Parallel Connections: Tie 5-7, 6-8; output 5-8

FUSE TYPES/VALUES USED TO GAIN SAFETY AGENCY COMPONENT RECOGNITION:

Fuse circuit location: Primary Fuse manufacturer: Littelfuse, Inc. (Des Plaines, IL)
Fuse P/N: 218.050 (230V Input) or 218.100 (115V Input)

| PART NUMBER | RMS RATING WITH SECONDARIES IN: | |
|-------------|---------------------------------|--------------|
| | SERIES | PARALLEL |
| SPW-2100 | 10VCT @ 600mA | 5V @ 1.2A |
| SPW-2101 | 12.6VCT @ 450mA | 6.3V @ 900mA |
| SPW-2102 | 16VCT @ 350mA | 8V @ 700mA |
| SPW-2103 | 20VCT @ 300mA | 10V @ 600mA |
| SPW-2104 | 24VCT @ 250mA | 12V @ 500mA |
| SPW-2105 | 34VCT @ 170mA | 17V @ 340mA |
| SPW-2106 | 40VCT @ 150mA | 20V @ 300mA |
| SPW-2107 | 56VCT @ 100mA | 28V @ 200mA |
| SPW-2108 * | 88VCT @ 65mA | 44V @ 130mA |
| SPW-2109 * | 120VCT @ 50mA | 60V @ 100mA |
| SPW-2110 * | 230VCT @ 25mA | 115V @ 50mA |
| SPW-2111 | 30VCT @ 200mA | 15V @ 400mA |

* Voltage ratings cannot be approved under UL 1585/5085-3

6/3/19 | -5 | Updated agency approvals; added pin length dimension | AG

11/9/15 | -4 | Updated agency approvals | RR

DATE | ISS. | REVISION | BY

Designed by: JRH 6/9/95
Drawn by: AG 5/31/19
Checked by: DB & TJK
Drawing rev.: SPW-2100-5

PREM
MAGNETICS, INC.

3521 N Chapel Hill Rd
Johnsburg, IL 60051
www.premmagnetics.com