# POWER-WIN TECHNOLOGY CORP.

www.power-win.com

**40Watts Single Output**

## Open Frame Type Switching Power Supply

### FEATURES

- High Power density, 40W in 1.5" x 3" footprint
- Meet Efficiency Level V
- Energy Consumption Criteria for No-Load under 100mW
- 2 year warranty

### ELECTRICAL SPECIFICATIONS

- Input range : 90 - 264VAC
- Frequency : 47 - 63Hz.
- Inrush current : < 40A peak @115VAC; < 80A peak @230VAC cold start @25°C
- Input current (rms) : 1A @115VAC; 0.5A @230VAC max.
- Efficiency : > 85% typical @full load, 115VAC (PW-025B-1Y05S: 80%)
- Maximum output power (Po) : 40 Watts convection cooling
- Hold-up time : > 6ms typical @full load, 115VAC
- Short circuit protection : Auto-recovery
- Over load protection : 180% maximum rating, Auto-recovery
- Over voltage protection : Latching type. AC Recycle.

**RoHS compliant**

Dimension : L76.2 × W38.1 × H23.5 mm ( 3" × 1.5" × 0.93" )

Weight : 0.074 kgs. ( 0.164 lbs. )

**Safety standards**

cUL 60950-1
UL 62368-1
CSA C22.2 No.60950-1
CSA C22.2 No.62368-1
TUV EN62368-1
CB IEC 60950-1
CB IEC 62368-1

**EMI standards**

FCC Part 15 Class B
CISPR 22 Class B
EN 55032 Class B
EN 55024
CE

### ENVIRONMENTAL

- Operating temperature : 0 to +70°C (Derate linearly 2.5% per °C from 51 to 70°C)
- Storage temperature: -40°C to +85°C
- Humidity: Non-condensing 5% to 95%
- MTBF : > 800,000 hours @full load and 25°C ambient temperature per Telcordia(Bellcore SR-332).

### DC OUTPUT & FEATURES

| Model No. | Output Voltage | Minimum Load | Maximum Load with Convection Cooling | Po | Peak Load Convection ( 60sec. ) | O/P Regulation | Ripple & Noise(Vp-p) | LPS |
|---|---|---|---|---|---|---|---|---|
| **PW-025B-1Y05S** | +5V | 0A | 5.00A | 25W | 7.00A (35W) | ±5% | 100mV | X |
| **PW-040B-1Y12S** | +12V | 0A | 3.34A | 40W | 4.17A (50W) | ±5% | 120mV | ● |
| **PW-040B-1Y15S** | +15V | 0A | 2.67A | 40W | 3.34A (50W) | ±5% | 150mV | ● |
| **PW-040B-1Y18S** | +18V | 0A | 2.23A | 40W | 2.78A (50W) | ±5% | 180mV | ● |
| **PW-040B-1Y24S** | +24V | 0A | 1.67A | 40W | 2.09A (50W) | ±5% | 240mV | ● |
| **PW-040B-1Y36S** | +36V | 0A | 1.12A | 40W | 1.39A (50W) | ±5% | 240mV | ● |
| **PW-040B-1Y48S** | +48V | 0A | 0.84A | 40W | 1.05A (50W) | ±5% | 240mV | ● |

**Note:** 1. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
2. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.

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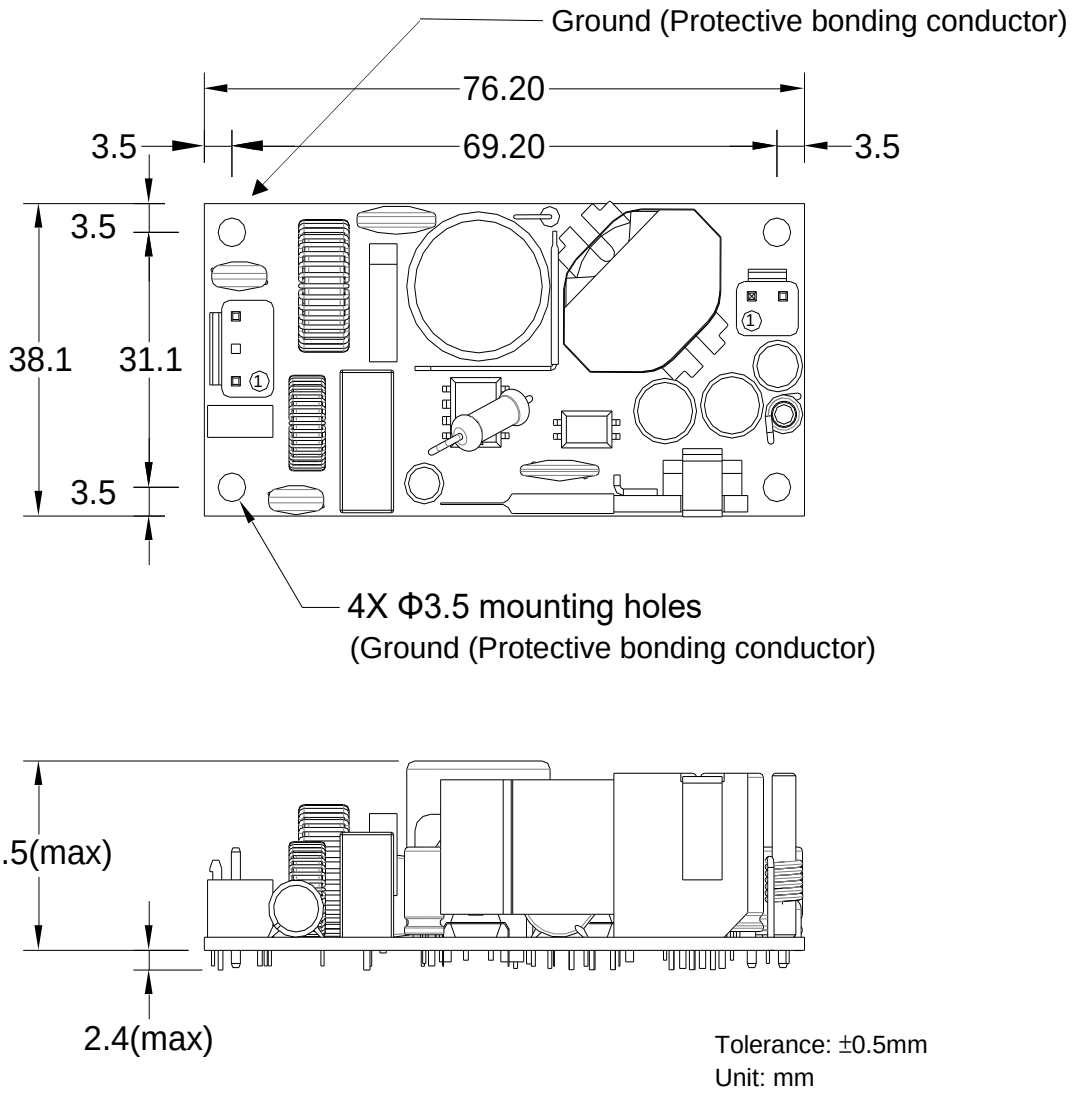
## MECHANICAL SPECIFICATION




Tolerance: ±0.5mm
Unit: mm

※ 4 Positions of mounting holes must be securely connected to protective earth ground in the final system assembly for optimum SAFETY and EMI performance.

### MATCHING CONNECTORS

**CN1: Input Connector**

JST B3P-VH-B pitch: 7.92mm or equivalent, mates with JST VHR-3N or equivalent

| Pin # | Signal |
|---|---|
| 1 | AC Line |
| 2 | AC Neutral |

**CN2: Output Connector**

JST B2P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-2N or equivalent

| Pin # | Signal |
|---|---|
| 1 | GND |
| 2 | +Vo |

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ADDITIONAL SERVICES

## We provide an end-to-end service

From the initial consultation and sourcing unique components to supplying bespoke solutions including a full design and build process.

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### Sourcing

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### Design & Build

Development and manufacturing services

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