

## FEATURES

- 2 Year Warranty
- Class I Insulation
- Internal EMI Filter
- 3-pin Input Connector
- Power Factor Correction
- Synchronous Rectification
- Power Fail Detect (Optional)
- Over Voltage Protection (Crowbar Design)
- Input Surge Current and Over Load Protection
- Output Voltage Available from 9VDC thru 48VDC
- 2-pin Input Connector Available (See PSSBU151 Series)



## SPECIFICATIONS: PSSBU150 Series

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.  
We reserve the right to change specifications based on technological advances.

| SPECIFICATION                                            | TEST CONDITIONS                                                        | Min                            | Nom  | Max   | Unit  |
|----------------------------------------------------------|------------------------------------------------------------------------|--------------------------------|------|-------|-------|
| INPUT (V <sub>in</sub> )                                 |                                                                        |                                |      |       |       |
| Operating Voltage Range                                  |                                                                        | 90                             |      | 264   | VAC   |
| Input Frequency                                          |                                                                        | 47                             |      | 63    | Hz    |
| Input Current (Low Line)                                 | I <sub>o</sub> = Full Load, V <sub>in</sub> = 115VAC                   |                                |      | 2.0   | A     |
| Input Current (High Line)                                | I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC                   |                                |      | 0.8   | A     |
| Inrush Current (Low Line)                                | I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 115VAC |                                | 16   | 20    | A     |
| Inrush Current (High Line)                               | I <sub>o</sub> = Full Load, 25°C, Cool Start, V <sub>in</sub> = 230VAC |                                | 56   | 63    | A     |
| Safety Ground Leakage Current                            | I <sub>o</sub> = Full Load, V <sub>in</sub> = 240VAC                   |                                | 0.5  | 0.75  | mA    |
| Start-Up Time                                            | I <sub>o</sub> = Full Load, V <sub>in</sub> = 100VAC                   | 0.3                            | 1    | 2     | s     |
| OUTPUT (V <sub>o</sub> )                                 |                                                                        |                                |      |       |       |
| Output Voltage Range                                     |                                                                        | See Rating Chart               |      |       |       |
| Load Regulation                                          | V <sub>in</sub> = 230VAC                                               |                                | 3    | 5     | %     |
| Line Regulation                                          | I <sub>o</sub> = Full Load                                             |                                | 0.5  | 1     | %     |
| Output Power                                             | V <sub>in</sub> = 90 to 264VAC                                         |                                |      | 150   | W     |
| Output Current Range                                     |                                                                        | See Rating Chart               |      |       |       |
| Ripple & Noise (peak to peak)                            | Full Load, V <sub>in</sub> = 90VAC                                     |                                | 0.5  | 1     | %     |
| Transient Response                                       | I <sub>o</sub> = Full Load to Half Load, V <sub>in</sub> = 100VAC      |                                |      | 4     | ms    |
| Hold-Up Time                                             | I <sub>o</sub> = Full Load, V <sub>in</sub> = 110VAC                   | 16                             |      |       | ms    |
| PROTECTION                                               |                                                                        |                                |      |       |       |
| Over Voltage Protection                                  |                                                                        | 112                            |      | 132   | %     |
| Over Current Protection                                  |                                                                        | 110                            |      | 150   | %     |
| GENERAL                                                  |                                                                        |                                |      |       |       |
| Efficiency                                               | I <sub>o</sub> = Full Load, V <sub>in</sub> = 230VAC                   | 85                             | 88   | 90    | %     |
| Dielectric Withstanding Voltage For Primary to Secondary | Primary to Secondary                                                   | 4242                           |      |       | VDC   |
| Dielectric Withstanding Voltage For Primary to Ground    | Primary to Ground                                                      | 2121                           |      |       | VDC   |
| Isolation Resistance                                     | Test Voltage = 500VDC                                                  | 50                             |      |       | MΩ    |
| Power Factor Correction                                  | I <sub>o</sub> = Full Load, V <sub>in</sub> = 90~260VAC                | 0.95                           | 0.97 | 1.0   |       |
| ENVIRONMENTAL                                            |                                                                        |                                |      |       |       |
| Operating Temperature                                    | Derate linearly from 100% Load at 50°C to 50% load at 70°C             | 0                              |      | +70   | °C    |
| Storage Temperature                                      |                                                                        | -40                            |      | +85   | °C    |
| Relative Humidity                                        |                                                                        | 5                              |      | 95    | %     |
| Temperature Coefficient                                  | All Outputs                                                            | -0.04                          |      | +0.04 | %/°C  |
| PHYSICAL                                                 |                                                                        |                                |      |       |       |
| Weight                                                   |                                                                        | Approximately 390 grams        |      |       |       |
| Dimensions                                               |                                                                        | 127(L) x 76.2(W) x 35.56(H) mm |      |       |       |
| Warranty                                                 |                                                                        | 2                              |      |       |       |
| SAFETY                                                   |                                                                        |                                |      |       |       |
| EMI Requirements for CISPR-22                            | V <sub>in</sub> = 220VAC                                               | B                              |      |       | Class |
| EMI Requirements for FCC PART-15                         | V <sub>in</sub> = 110VAC                                               | B                              |      |       | Class |

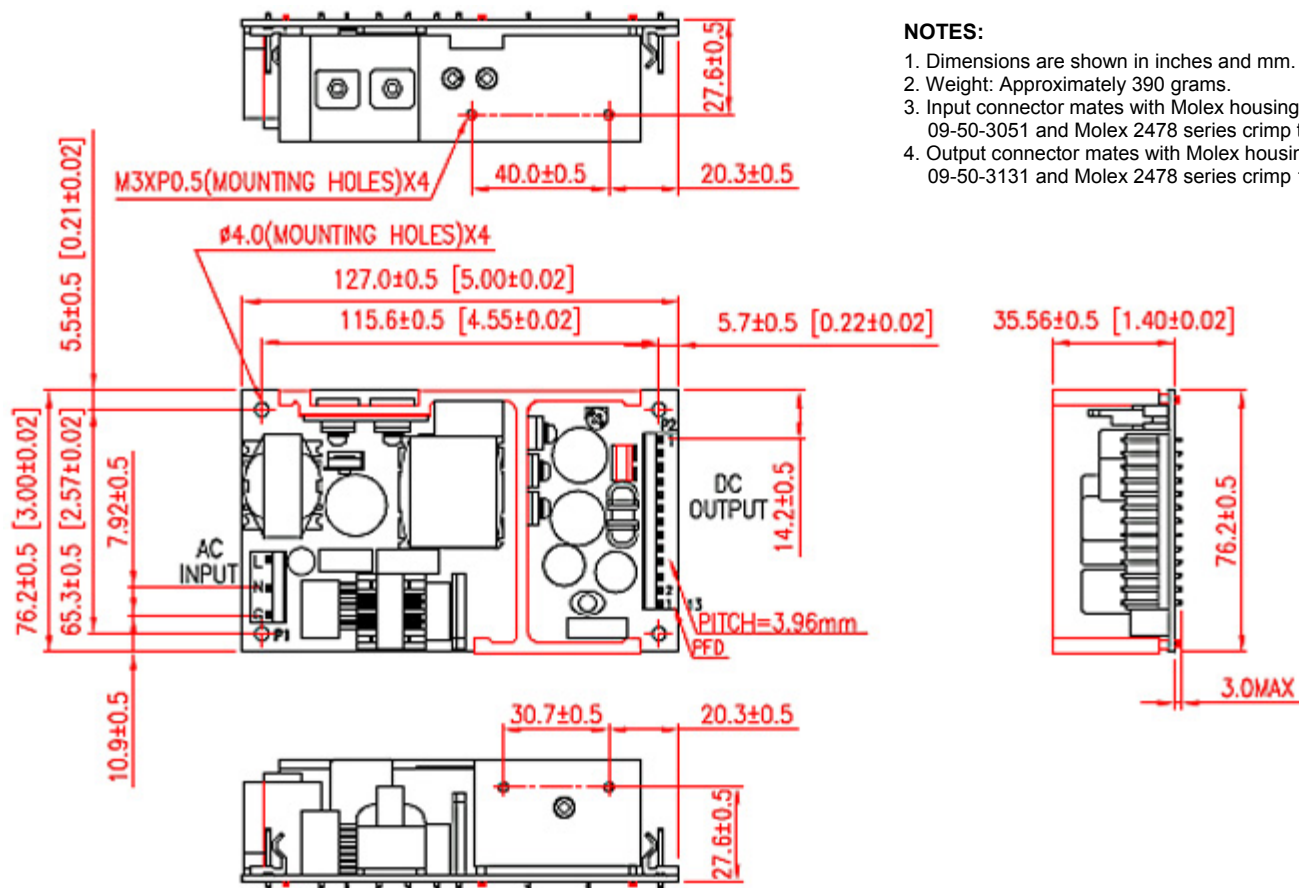
## OUTPUT VOLTAGE / CURRENT RATING CHART

| Model Number | Preset Voltage | Output Current | Total Regulation | Maximum Output Power |
|--------------|----------------|----------------|------------------|----------------------|
| PSSBU150-104 | 9 VDC          | 16.0 A         | 5%               | 144 W                |
| PSSBU150-105 | 12 VDC         | 12.5 A         | 5%               | 150 W                |
| PSSBU150-106 | 15 VDC         | 10.0 A         | 5%               | 150 W                |
| PSSBU150-107 | 18 VDC         | 8.33 A         | 4%               | 150 W                |
| PSSBU150-108 | 24 VDC         | 6.25 A         | 3%               | 150 W                |
| PSSBU150-109 | 30 VDC         | 5.00 A         | 2%               | 150 W                |
| PSSBU150-110 | 36 VDC         | 4.17 A         | 2%               | 150 W                |
| PSSBU150-111 | 48 VDC         | 3.13 A         | 2%               | 150 W                |

## NOTES

1. Mechanical Drawing: Dimensions are shown in inches or mm.
2. Weight of the unit is approximately 390 grams.
3. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal.
5. 2 pin input connector available: See PSSBU151 Series.

## MECHANICAL DRAWING



### NOTES:

1. Dimensions are shown in inches and mm.
2. Weight: Approximately 390 grams.
3. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal.

| PIN          | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13 (Optional) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
| PSSBU150-1XX | OUT | OUT | OUT | OUT | OUT | OUT | RTN | RTN | RTN | RTN | RTN | RTN | RTN           |