

1607-XT50D1A, 1607-XT100D1A, 1607-XT100D1B\*\*‡, 1607-XT200D1A‡, 1607-XT200D1B\*\*‡, 1607-XT200D2A‡, 1607-XT200D2B\*\*‡

**ATTENTION!**

- Disconnect power prior to installation or servicing
- Installation only by Qualified personnel
- Follow all applicable local and national electrical codes
- Technical Data subject to change
- To be used only within specifications (ie Input voltage, Operating Temperature Range, etc)
- All specifications are only valid when connected per recommendations.

**Technical Data:**

| Technical Data:                              |                                                                                                                                          | 50 W                                                      | 100 W                                                                                                                                               | 200 W, 1 Output                                           | 200 W, 2 Output |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------|
| Floating Output:                             | 1607-XT50D1A                                                                                                                             | 1607-XT100D1A                                             | 1607-XT200D1A (‡)                                                                                                                                   | 1607-XT200D2A (‡)                                         |                 |
| Grounded Output:                             |                                                                                                                                          | 1607-XT100D1B (**‡)                                       | 1607-XT200D1B (**‡)                                                                                                                                 | 1607-XT200D2B (**‡)                                       |                 |
| Output Power                                 | 48.0 W                                                                                                                                   | 91.2 W                                                    | 192 W<br>(288 W with Power Boost)                                                                                                                   | 91.2 W per output<br>(Two outputs per power supply)       |                 |
| Input Voltage (47...63Hz)                    | 100...240V AC, 100...300V DC                                                                                                             |                                                           |                                                                                                                                                     |                                                           |                 |
| Operational Voltage Range                    | 90...264V AC, 100...300V DC                                                                                                              |                                                           |                                                                                                                                                     |                                                           |                 |
| Power Factor Correction (47...63Hz)          | -                                                                                                                                        |                                                           | >0.98 active                                                                                                                                        |                                                           |                 |
| Hold-up Time                                 | 50ms                                                                                                                                     |                                                           |                                                                                                                                                     |                                                           |                 |
| Rated Input Current                          | 1.0 A (115V AC), 0.5 A(230V AC);<br>I <sub>max</sub> 1.5A                                                                                | 2.0 A (115V AC), 1.0 A(230V AC);<br>I <sub>max</sub> 2.0A | 2.4 A (115V AC), 1.2 A(230V AC);<br>I <sub>max</sub> 2.5A                                                                                           | 2.2 A (115V AC), 1.1 A(230V AC);<br>I <sub>max</sub> 2.5A |                 |
| Inrush Current                               | <25 A                                                                                                                                    |                                                           |                                                                                                                                                     |                                                           |                 |
| Efficiency                                   | >88%, 120V AC; >89%, 230V AC                                                                                                             |                                                           | >82%, 120V AC; >85%, 230V AC                                                                                                                        |                                                           |                 |
| Output Voltage                               | 24V (+1%)                                                                                                                                |                                                           |                                                                                                                                                     |                                                           |                 |
| Rated Output Current                         | 2.0 A                                                                                                                                    | 3.8 A                                                     | 8A                                                                                                                                                  | 3.8 A per output<br>(two outputs per power supply)        |                 |
| Reserve Power<br>(typ. 4s, 60s recovery me)  | -                                                                                                                                        |                                                           | 12A                                                                                                                                                 | -                                                         |                 |
| Ripple Voltage                               | <240 mV pp bandwidth, 1 MHz                                                                                                              |                                                           |                                                                                                                                                     |                                                           |                 |
| Noise                                        | <480 mV pp bandwidth, 20 MHz                                                                                                             |                                                           |                                                                                                                                                     |                                                           |                 |
| Overcurrent Protection                       | electronic current limited to<br>2.2...2.7 A                                                                                             | electronic current limited to<br>3.8...4.1 A              | electronic current limited to<br>12.1...15.6 A (8.4...10.4 A after 4s<br>Power Boost times out)                                                     | electronic current limited to<br>3.8...4.1 A              |                 |
| AC Power LED<br>(Indication for Output 1)    | yes                                                                                                                                      |                                                           |                                                                                                                                                     |                                                           |                 |
| AC Power LED<br>(Indication for Output 2)    | -                                                                                                                                        |                                                           |                                                                                                                                                     | yes                                                       |                 |
| Operating Temperature<br>Range (Tamb)        | -25...+70 °C<br>derate 2.5%/K, 50...70 °C                                                                                                |                                                           | -25...+60 °C<br>derate 2.0%/K, 50...60 °C <sup>(2)</sup>                                                                                            |                                                           |                 |
| Non-Operating (Storage)<br>Temperature Range | -40...+85 °C                                                                                                                             |                                                           |                                                                                                                                                     |                                                           |                 |
| Humidity                                     | up to 100% with condensation                                                                                                             |                                                           |                                                                                                                                                     |                                                           |                 |
| MTBF <sup>(1)</sup>                          | >500 000 hours                                                                                                                           |                                                           |                                                                                                                                                     |                                                           |                 |
| Dimensions (W x H x D)                       | 140 x 36 x 85 mm (5.51 x 1.42 x 3.35 in.)                                                                                                |                                                           | 245 x 74 x 122 mm (9.64 x 2.91 x 4.80 in.)                                                                                                          |                                                           |                 |
| Weight                                       | 750 g (1.65 lb)                                                                                                                          |                                                           | 3040 g (6.70 lb)                                                                                                                                    |                                                           |                 |
| Ingress Protection                           | IP67, EN 60529                                                                                                                           |                                                           |                                                                                                                                                     |                                                           |                 |
| Certifications/Standards                     | CE, UL 508 (UL LISTED), UL 60950 (cURus), Safety Standards = IEC/EN 60950, EN 60529                                                      |                                                           |                                                                                                                                                     |                                                           |                 |
| Special Features                             | NEC Class 2                                                                                                                              |                                                           | -                                                                                                                                                   | NEC Class 2                                               |                 |
| Mounting Recommendations                     | Clearance of 150mm above power supply.<br>Clearance of 50mm on all other surfaces excluding mounting<br>surface. (See diagram on page 2) |                                                           | Panel mounted with vertically oriented heat sinks.<br>Clearance of 150mm above power supply, 50mm on all other<br>surfaces. (See diagram on page 2) |                                                           |                 |

<sup>(1)</sup> MTBF determined by Siemens norm SN 29500 at full load current and 40 °C.

<sup>(2)</sup> For IT applications per UL60950, the maximum ambient temperature at full load current is 30 °C.

\*\* These devices are intended only for installation in control circuits on Industrial Machines in accordance with NFPA 79. Due to the nature of these devices (fixed equipment using cable connections) they may not be suitable for installation in accordance with the NEC (NFPA 70).

‡ This is a protection class 1 unit, connection to PE (earth ground) is mandatory.

| <b>APPLICATION NOTE:</b> | Isolated Output by Double or Reinforced Insulation per UL60950-1 | SELV circuits | PELV circuits |
|--------------------------|------------------------------------------------------------------|---------------|---------------|
| <b>Floating Output:</b>  | YES                                                              | YES           | YES           |
| <b>Grounded Output:</b>  | YES                                                              | NO            | YES           |



At the end of its life, this equipment should be collected separately from any unsorted municipal waste.

**TABLE 2: Power Supply with Protective Earth Output****CONNECTIONS:**

Floating Output Products: 1607-XT50D1A, 1607-XT100D1A, 1607-XT200D1A (‡), 1607-XT200D2A (‡)

**INPUT CONNECTIONS:**

| Pin | Color          | 1607-XT50D1A | 1607-XT100D1A | 1607-XT200D1A | 1607-XT200D2A |
|-----|----------------|--------------|---------------|---------------|---------------|
| 1   | Green / Yellow | NC           | NC            | PE            | PE            |
| 2   | White          | L            | L             | L             | L             |
| 3   | Black          | N            | N             | N             | N             |

\*This is a protection class 1 unit, connection to PE (earth ground) is mandatory.

**Recommended : (Customer Supplied)**

3 Position Female  
Daniel Woodhead PN 103000A01M\*\*0  
(...M\*\*0 = 02,04,05,06,10,15,20,25  
meters common lengths)

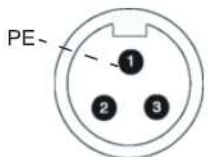
**OUTPUT CONNECTIONS:**

| Pin | Color          | 1607-XT50D1A | 1607-XT100D1A | 1607-XT200D1A | 1607-XT200D2A |
|-----|----------------|--------------|---------------|---------------|---------------|
| 1   | White          | +            | +             | +             | +             |
| 2   | Black          | +            | +             | +             | +             |
| 3   | Red            | -            | -             | -             | -             |
| 4   | Green / Yellow | -            | -             | -             | -             |

**Recommended : (Customer Supplied)**

4 Position Male  
Daniel Woodhead PN 104006A01M \*\*0  
(...M\*\*0 = 02,04,05,06,10,15,20,25  
meters common lengths)

Grounded Output Products: 1607-XT100D1B (\*\*‡), 1607-XT200D1B (\*\*‡), 1607-XT200D2B (\*\*‡)

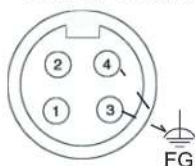
**INPUT CONNECTIONS:**

| Pin | Color          | 1607-XT100D1B | 1607-XT200D1B | 1607-XT200D2B |
|-----|----------------|---------------|---------------|---------------|
| 1   | Green / Yellow | PE            | PE            | PE            |
| 2   | White          | L             | L             | L             |
| 3   | Black          | N             | N             | N             |

\*This is a protection class 1 unit, connection to PE (earth ground) is mandatory.

**Recommended : (Customer Supplied)**

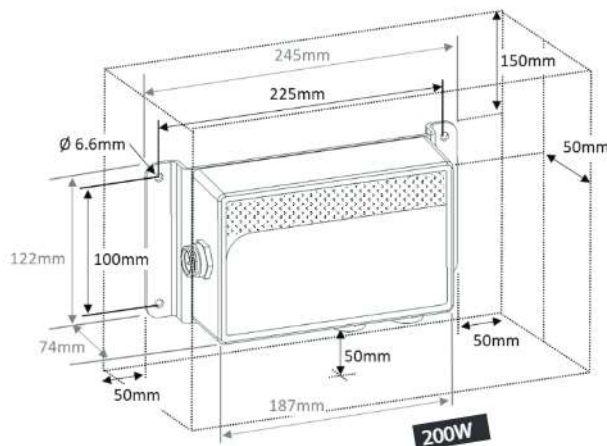
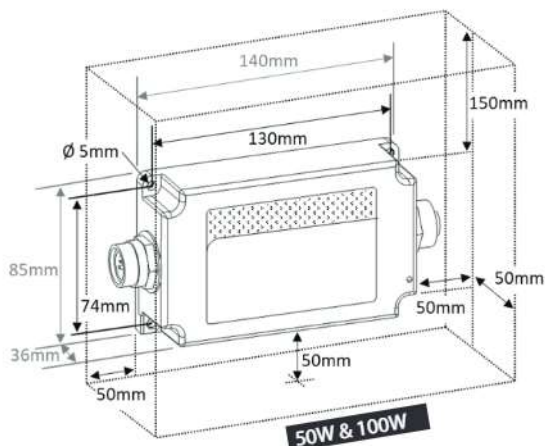
3 Position Female  
Daniel Woodhead PN 103000A01M\*\*0  
(...M\*\*0 = 02,04,05,06,10,15,20,25  
meters common lengths)

**OUTPUT CONNECTIONS:**

| Pin | Color          | 1607-XT100D1B | 1607-XT200D1B | 1607-XT200D2B |
|-----|----------------|---------------|---------------|---------------|
| 1   | White          | +             | +             | +             |
| 2   | Black          | +             | +             | +             |
| 3   | Red            | - FG          | - FG          | - FG          |
| 4   | Green / Yellow | - FG          | - FG          | - FG          |

**Recommended : (Customer Supplied)**

4 Position Male  
Daniel Woodhead PN 104006A01M \*\*0  
(...M\*\*0 = 02,04,05,06,10,15,20,25  
meters common lengths)

**MOUNTING and CLEARANCES:**For Technical Support, visit [rok.auto/support](http://rok.auto/support).Rockwell Automation maintains current product environmental compliance information on its website at [rok.auto/pec](http://rok.auto/pec).Product certificates are located in the Rockwell Automation Literature Library: [rok.auto/certifications](http://rok.auto/certifications).

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DIR 10000065097 (Version 06)

Publication 1607-IN001G-EN-E - July 2020

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