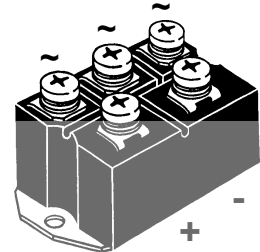
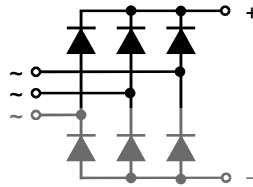


# Three Phase Rectifier Bridge

**I<sub>dAV</sub> = 63/88 A**  
**V<sub>RRM</sub> = 800-1800 V**

| V <sub>RSM</sub><br>V | V <sub>RRM</sub><br>V | Type                        |
|-----------------------|-----------------------|-----------------------------|
| 600                   | 600                   | VUO 62-06NO7 VUO 82-06NO7   |
| 800                   | 800                   | VUO 62-08NO7 VUO 82-08NO7   |
| 1200                  | 1200                  | VUO 62-12NO7 VUO 82-12NO7   |
| 1400                  | 1400                  | VUO 62-14NO7 VUO 82-14NO7   |
| 1600                  | 1600                  | VUO 62-16NO7 VUO 82-16NO7   |
| 1800                  | 1800                  | VUO 62-18NO7* VUO 82-18NO7* |



\* delivery time on request

| Symbol            | Test Conditions   | Maximum Ratings |        |
|-------------------|---|-----------------|--------|
|                   |   | VUO 62          | VUO 82 |
| I <sub>dAV</sub>  | T <sub>C</sub> = 110°C, module                              | 63              | 88     |
| I <sub>dAV</sub>  | T <sub>A</sub> = 45°C (R <sub>thCA</sub> = 0.6 K/W), module | 48              | 57     |
| I <sub>FSM</sub>  | T <sub>VJ</sub> = 45°C; t = 10 ms (50 Hz), sine             | 550             | 750    |
|                   | V <sub>R</sub> = 0 t = 8.3 ms (60 Hz), sine                 | 600             | 820    |
| I <sup>2</sup> t  | T <sub>VJ</sub> = T <sub>VJM</sub> t = 10 ms (50 Hz), sine  | 500             | 670    |
|                   | V <sub>R</sub> = 0 t = 8.3 ms (60 Hz), sine                 | 550             | 740    |
| I <sup>2</sup> t  | T <sub>VJ</sub> = 45°C t = 10 ms (50 Hz), sine              | 1520            | 2800   |
|                   | V <sub>R</sub> = 0 t = 8.3 ms (60 Hz), sine                 | 1520            | 2800   |
| I <sup>2</sup> t  | T <sub>VJ</sub> = T <sub>VJM</sub> t = 10 ms (50 Hz), sine  | 1250            | 2250   |
|                   | V <sub>R</sub> = 0 t = 8.3 ms (60 Hz), sine                 | 1250            | 2250   |
| T <sub>VJ</sub>   |   | -40...+150      | °C     |
| T <sub>VJM</sub>  |   | 150             | °C     |
| T <sub>stg</sub>  |   | -40...+125      | °C     |
| V <sub>ISOL</sub> | 50/60 Hz, RMS t = 1 min                                     |                 | 2500   |
|                   | I <sub>ISOL</sub> ≤ 1 mA t = 1 s                            |                 | 3000   |
| M <sub>d</sub>    | Mounting torque (M5)  | 5 ± 15 %        | Nm     |
|                   | Terminal connection torque (M5)                             | 5 ± 15 %        | Nm     |
| Weight            | typ.  |                 | 160    |

### Features

- Package with screw terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E72873

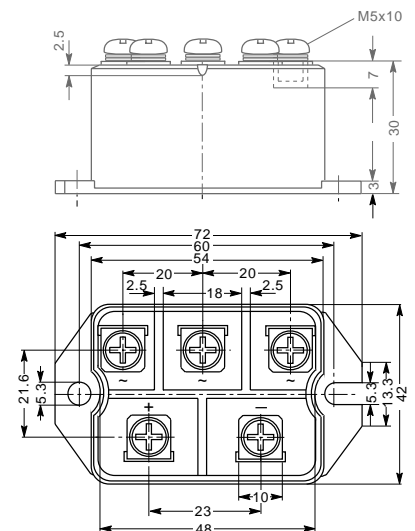
### Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

### Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

### Dimensions in mm (1 mm = 0.0394")



| Symbol            | Test Conditions  | Characteristic Values |                  |
|-------------------|--|-----------------------|------------------|
|                   |  | VUO 62                | VUO 82           |
| I <sub>R</sub>    | V <sub>R</sub> = V <sub>RRM</sub> ; T <sub>VJ</sub> = 25°C             | ≤ 0.3                 | 0.3              |
|                   | V <sub>R</sub> = V <sub>RRM</sub> ; T <sub>VJ</sub> = T <sub>VJM</sub> | ≤ 5                   | 5                |
| V <sub>F</sub>    | I <sub>F</sub> = 150 A; T <sub>VJ</sub> = 25°C                         | ≤ 1.8                 | 1.6              |
| V <sub>To</sub>   | For power-loss calculations only                                       | 0.8                   | 0.8              |
| r <sub>T</sub>    |  | 8                     | 5                |
| R <sub>thJC</sub> | per diode  | 1.45                  | 1.1              |
|                   | per module   | 0.24                  | 0.183            |
| R <sub>thJH</sub> | per diode  | 1.87                  | 1.52             |
|                   | per module   | 0.31                  | 0.253            |
| d <sub>s</sub>    | Creeping distance on surface   | 10                    | mm               |
| d <sub>A</sub>    | Creepage distance in air   | 9.4                   | mm               |
| a                 | Max. allowable acceleration  | 50                    | m/s <sup>2</sup> |

Data according to IEC 60747 and refer to a single diode unless otherwise stated. IXYS reserves the right to change limits, test conditions and dimensions.