

COMMON TO EMERGENCY LUMINAIRE CONVERTERS



| TECHNICAL CHARACTERISTICS | GR-1004-A/61 | GR-1004-B/62 | GR-1004-E/81 | GR-1004-F/82 | GR-1004-C/71 | GR-1004-D/72 |
|-----------------------------------|--|--------------|--------------|--------------|--------------|--------------|
| OPERATION VOLTAGE | 220-240V AC/50-60Hz | | | | | |
| MAXIMUM POWER CONSUMPTION | 13 VA | | | | | |
| LAMP OPERATION FREQUENCY | 13-16kHz | | | | | |
| COOPERATES WITH BATTERY PACKS | 4,8V/1,5Ah | 4,8V/3Ah | 6V/1,5Ah | 6V/3Ah | 8,4V/1,5Ah | 8,4V/3Ah |
| CHARGE CURRENT | 200mA | 250mA | 200mA | 250mA | 200mA | 250mA |
| CHARGE TIME (maximum) | 24 hours | | | | | |
| DURATION | 90 minutes | 180 minutes | 90 minutes | 180 minutes | 90 minutes | 180 minutes |
| OUTPUTS/INPUTS | Output for charge indication LED, TEST button and remote input | | | | | |
| BATTERY PROTECTION | From overcharge and deep discharge | | | | | |
| LAMP TYPES T5,T8 or CFL | 6-24W | | 6-49W | | 6-80W | |
| LAMP EFFICIENCY IN EMERGENCY MODE | See table 1 | | See table 2 | | See table 3 | |
| EFFICIENCY | >73% | | | | | |
| DEGREES OF COVER PROTECTION | IP20 | | | | | |
| PRODUCED IN ACCORDANCE WITH | EN 60598-1, EN 60598-2-22 | | | | | |
| OPERATION TEMPERATURE RANGE | 5 to 50 °C | | | | | |
| RELATIVE HUMIDITY | Up to 95% | | | | | |
| CONSTRUCTION MATERIAL | Bayblend FR3010 | | | | | |
| EXTERNAL DIMENSIONS | 296 x 32 x 21 mm | | | | | |
| WEIGHT | 160gr. | | | | | |
| GUARANTEE | 2 years | | | | | |

Thank you for your trust in our products.
Olympia Electronics - European manufacturer.

GENERAL

The GR-1004-A/61, GR-1004-B/62, GR-1004-C/71, GR-1004-D/72, GR-1004-E/81 and GR-1004-F/82 converters are electronic devices that permit us to convert a common luminaire with a 6-80W lamp (T5 T8 or CFL) to an emergency luminaire. They can be connected to a luminaire that uses a conventional or electronic ballast. The incorporated charger manages the charging of the external Ni-Cd battery in such a way that it ensures a full charge with controlled conditions and a maintenance in order to maintain the battery fully charged. The same circuit ensures that the battery discharge stays within safe levels. The TEST input is connected to an external push-button (push to make) and is optional. Pressing the TEST button causes the unit to enter emergency operation mode. In this state we can see to good operation of the lamp and the driving circuits. The LED output is connected to an external LED indicator (supplied). This indicator lights when the unit is connected to the mains power supply and the battery is charging. In case of a fault the indicator remains OFF.

INSTALLATION

The connection of the unit with the external lamps and control gear is relatively simple and done according to the diagrams found on page 2. The GR-1004 can be connected to numerous types of lamps and control gear (electronic or magnetic).

The connection of the unit to the mains power supply must be done after all connections to external devices such as lamps, ballast, batteries e.t.c have finished.

WARRANTY

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid.

Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of deflection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

HEAD OFFICE

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TABLE 1 (GR-1004-A/61,GR-1004-B/62)

| NOMINAL LAMP RATING | 6W (T5) | 8W (T5) | 11W (CFL) | 13W (CFL) | 14W (T5) | 18W (CFL) | 21W (T5) | 24W (T5) | 24W (CFL) |
|---------------------------------------|---------|---------|-----------|-----------|----------|-----------|----------|----------|-----------|
| LAMP EFFICIENCY DURING EMERGENCY MODE | 54% | 40% | 29% | 25% | 23% | 18% | 15% | 13% | 13% |

TABLE 2 (GR-1004-E/81, GR-1004-F/82)

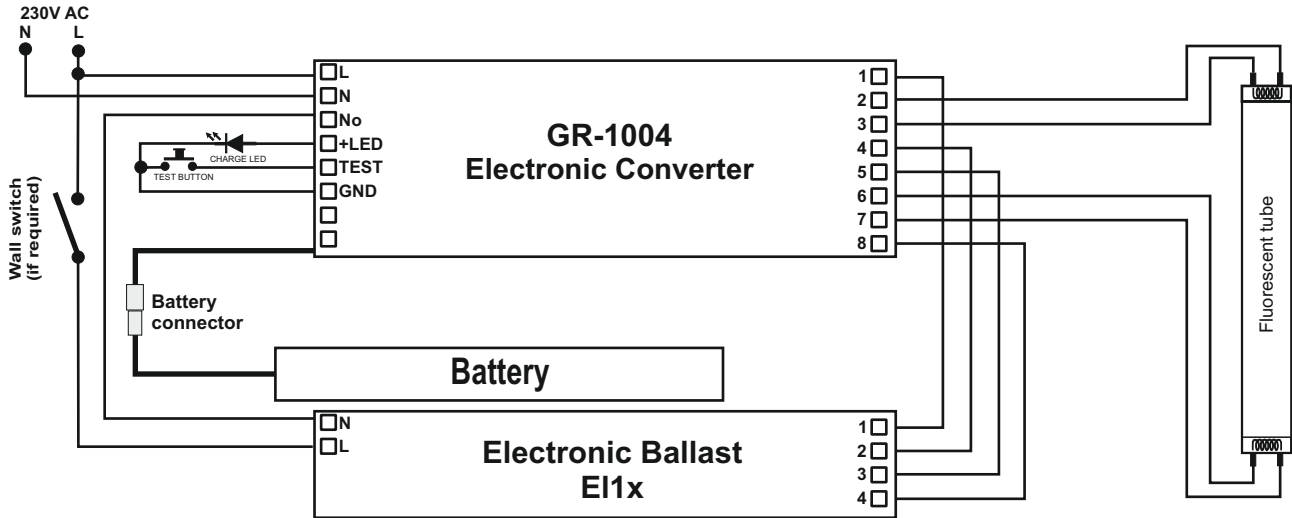
| NOMINAL LAMP RATING | 6W (T5) | 8W (T5) | 11W (CFL) | 13W (CFL) | 14W (T5) | 18W (CFL) | 21W (T5) | 24W (T5) | 24W (CFL) | 28W (T5) | 32W(CIRC) | 32W (CFL) | 35W(T5) | 36W(T8) | 36W (CFL) | 49W(T5) |
|---------------------------------------|---------|---------|-----------|-----------|----------|-----------|----------|----------|-----------|----------|-----------|-----------|---------|---------|-----------|---------|
| LAMP EFFICIENCY DURING EMERGENCY MODE | 54% | 40% | 29% | 25% | 23% | 18% | 15% | 13% | 13% | 11% | 17% | 10% | 16% | 15% | 9% | 11% |

TABLE 3 (GR-1004-C/71, GR-1004-D/72)

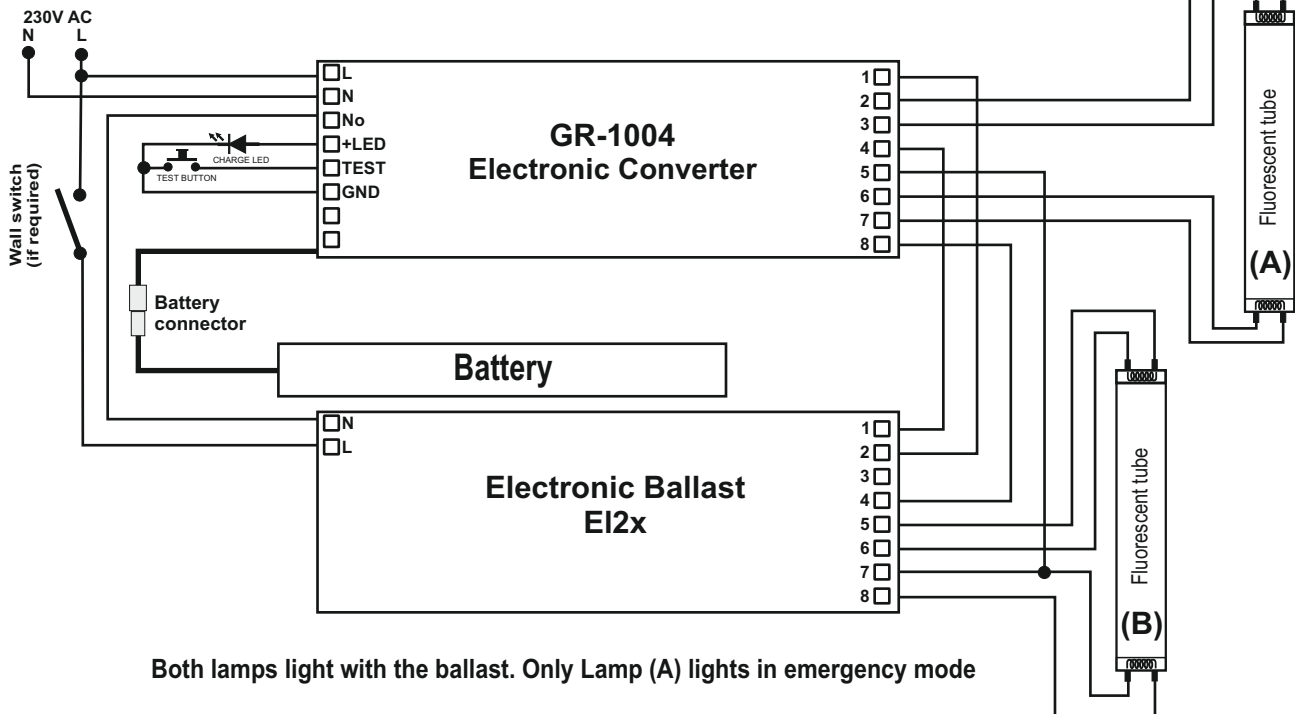
| NOMINAL LAMP RATING | 6W (T5) | 8W (T5) | 11W (CFL) | 13W (CFL) | 14W (T5) | 18W (CFL) | 21W (T5) | 24W (T5) | 24W (CFL) | 28W (T5) | 32W(CIRC) | 32W (CFL) | 35W(T5) | 36W(T8) | 36W (CFL) | 49W(T5) | 54W(T5) | 55W(CFL) | 58W(T8) | 80W(T5) |
|---------------------------------------|---------|---------|-----------|-----------|----------|-----------|----------|----------|-----------|----------|-----------|-----------|---------|---------|-----------|---------|---------|----------|---------|---------|
| LAMP EFFICIENCY DURING EMERGENCY MODE | 54% | 40% | 29% | 25% | 23% | 18% | 15% | 13% | 13% | 11% | 17% | 10% | 16% | 15% | 9% | 11% | 10.5% | 10% | 9.5% | 6% |

CONNECTION EXAMPLES

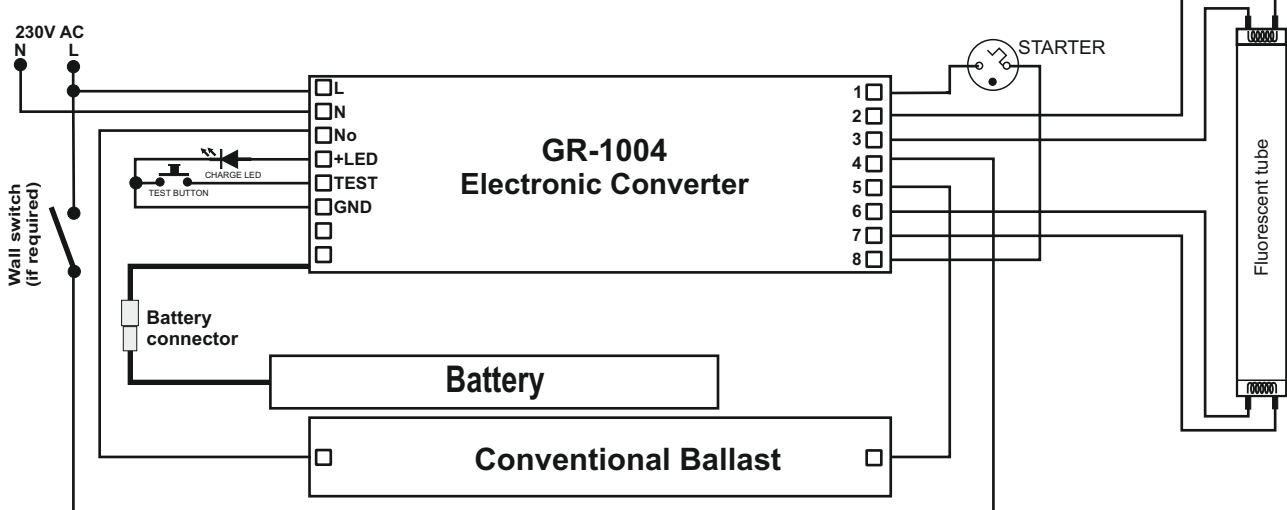
Connection diagram between a GR-1004 and an electronic ballast for 1 lamp T5 or T8



Connection diagram between a GR-1004 and an electronic ballast for 2 lamps T5 or T8



Connection diagram between a GR-1004 and a conventional ballast for 1 lamp T5 or T8



Additional connection diagrams for different types of ballasts can be supplied upon request.