European manufacturer

olympia electronics
SAFETY & SECURITY SYSTEMS
for a safer world!

WATERPROOF NON MAINTAINED EMERGENCY LUMINAIRES

CE

TECHNICAL CHARACTERISTICS

	GRL-21/H/90/WP	GRL-21/H/180/WP
OPERATION VOLTAGE	220-240V AC/50-60Hz	
MAXIMUM POWER CONSUMPTION	13.3W/14VA	
SUPPLY CURRENT	63 mA	
Prated/Irated	21.6W / 1.2A	
Iemergency	590mA per Lamp	
WIRE CROSS SECTION	Power Cables: 0.8-2.5mm^2	
U-OUT	30V	
BATTERY (DJWS12-7.0)	Sealed Lead-Acid 12V/7Ah, 0 ~ 40°C	2 x Sealed Lead-Acid 12V/7Ah, 0 ~ 40°C
MAX. CHARGING VOLTAGE IN NORMAL CYCLE	14.5V	
MAX. VOLTAGE IN STANDBY OPERATION	13.8V	
MIN. - MAX.CHARGE CURRENT / VOLTAGE RANGE	230 - 710 mA / 10.5 - 14.5V	
MIN. - MAX. DISCHARGE CURRENT / VOLTAGE RANGE	1700 - 2300 mA / 13.8 - 10.5	
BATTERY PROTECTION	Deep discharge and overcharge protection / the control gear will recharge the battery normally after the test of 22.3	
Rated CURRENT @12V	2.15A	
OPEN CIRCUIT VOLTAGE	23.5V DC	
CONTROL GEAR FUSE	8A/250V FB, 5x20mm	
CONTROL GEAR MAX. TEMPERATURE	75°C at R11	
CONTROLGEAR MIN/MAX VOLTAGE LOAD OUTPUT	17 / 23V	
INDICATIONS - CONTROLS	Power, Battery Charge / TEST Button	
CHARGING TIME	24h	
MINIMUM AUTONOMOUS DURATION	90 min	180 min
LIGHT SOURCE	White LEDs	
EMERGENCY ILLUMINATION	3200lm	
DEGREES OF COVER PROTECTION	IP65	
PRODUCED IN ACCORDANCE WITH	EN 60598-1, EN 60598-2-22, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3	
OPERATION TEMPERATURE RANGE	5 to 40 °C	
RELATIVE HUMIDITY	Up to 95%	
CONSTRUCTION MATERIALS	Aluminium, ABS/PC, PC	
EXTERNAL DIMENSIONS	307 x 100 x 333 mm	
TYPICAL WEIGHT	4250gr	6440gr.
GUARANTEE	3 years (1 year for the battery)	
ELECTRONIC CONTROL GEAR	EL	

The lamp controlgear relies upon the luminaire enclosure for protection against accidental contact with live part (7.2 BS EN 61347-2-7)
The controlgear is proof against supply voltage polarity reversal
The controlgear is suitable for LED module only
The controlgear can supply the LED modules only during emergency operation
The controlgear has mains-connected windings of transformer

LED MODULE CHARACTERISTICS

Manufacturer	Olympia Electronics S.A.
Model Number	2002163
Voltage Range	19-23V
Nominal Power	4.9W
Supply Current	590 mA on each lamp
Max Working Voltage for Proper Insulation	700 V
LV Supply - Control Conductors Insulation Type	Basic Insulation
Connections	Cable connection between main pcb and led module
Temperature (tc)	60 °C max. across the board
LED Module Type	Built-in

NOTE Maintenance of the declared insulation barrier for the luminaire can also be dependent on other external components/products connected to the same bus. This is the responsibility of the control system designer, not the luminaire manufacturer.

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

GENERAL

These luminaires are used indoors (ta 40°C) where emergency light is needed. Each luminaire must be connected permanently to the mains power supply.

OPERATION

When the device is powered from the mains, and the battery(ies) is(are) connected, the 'power' and 'charge' indicators are ON. The 'charge' indicator indicates the battery charging operation. If it does not light, probably, the batteries are disconnected. If it does not light and the batteries are connected, then contact the technician. The *power* indicator confirms the proper connection to the mains. The TEST button, has a dual use. If pressed instantlly while the device is connected to the mains, the device simulates the power interruption, by lighting the lamps for 3". In that way, we can control the driver circuit of the lamps and the lamps as indicated in paragraph 3 in the text below.

DIMMING OPTION

When the voltage is interrupted, with corresponding pressings of the button, we can choose the illumination of 100%, 50%, 33% or turned off, either to increase the autonomy time or not to consume the battery power unnecessarily. This option is canceled when the power network is restored.

WARNING !!!

1. Every test, installation or maintenance procedure must be done only by qualified personnel.
2. The unit must be connected to the mains power supply using a line fuse rated accordingly.
3. The replacement of the battery and the light source must be done using parts of the same type, by the manufacturer or by a competent person.
4. If the luminaire must be isolated from the mains power supply for more than 2 months then the batteries must be disconnected by removing the battery connectors.
5. **It is not allowed to discard batteries in to common trash bins, they must be discarded only in battery recycling points. Do not incinerate.**

NOTE: LED= Light Emitting Diode

LABELING EXPLANATION:

X: Self contained
0: Non Maintained (*)
A: Including test device
***90:** 1.5 hour duration
180: 3 hour duration

X	0	A	1 8 0

(*)Non Maintained operation: The luminaire lights its illumination source, only in power supply's failure.

INDICATION LED STATUS (with the mains power supply connected)

CHARGE		POWER	
○	Disconnected battery / not charging	○	No mains power supply
●	Charged battery	●	Normal operation mode

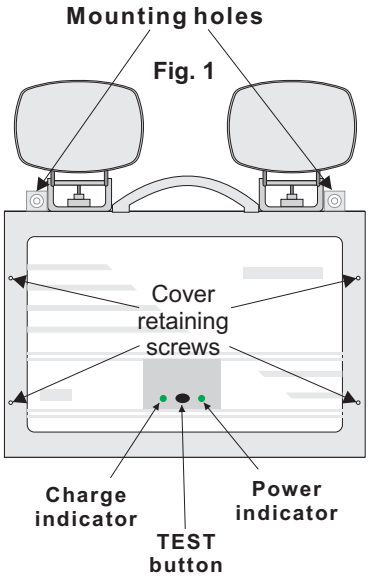
○ Indicator OFF ● Indicator ON

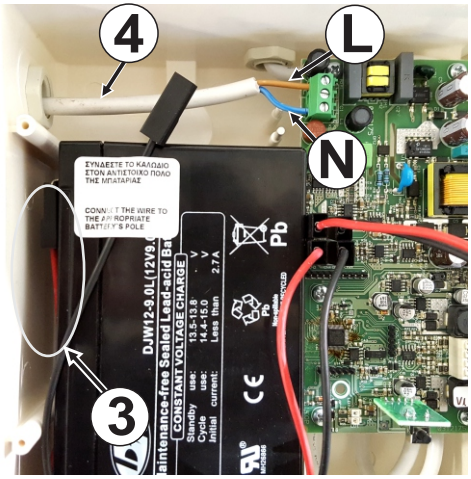
WARRANTY

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 defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

HEAD OFFICE
72nd km. O.N.R. Thessaloniki-Katerini
P.C. 60300 P.O. Box 06 Eginio Pierias Greece
www.olympia-electronics.com
info@olympia-electronics.gr

INSTALLATION PROCEDURE (For wall mounting only)





1. Use the supplied mounting accessories to mount the device (Fig1).
2. Remove the four cover retaining screws (Fig 1).
3. Install the battery cable connectors to the batteries taking care of the polarity, black cable (-) and red cable (+).
4. Always use in any case round mains cable, with external diameter of 6-9mm (H05RN-F type 2x1mm² or any other type, at least equal to it's mechanical and electrical properties). ATTENTION!! The cable must not be deformed in any way (This requirement is important to ensure the tightness isolation IP65). Install the cable gland, pass the round cable through and tighten it all the way.
5. Connect the cables to the respective positions in the terminal block L for phase and N for neutral.
6. Reinstall the front cover and fasten the retaining screws. (Tightening torque 1Nm). Pay attention to the 4 sealing o-rings.

WARNING!! After the installation has finished, charge the batteries for at least 24 hours so as to obtain the rated autonomous duration.

Battery replacement
It can be done only by a competent person and after the mains interruption
1. Follow the step 2 of the installation procedure.
2. Disconnect the cables and remove the old battery.
3. Connect the new battery with the same type (step 3 of the installation procedure) and place it in the position of the old one.
4 . Follow the step 6 of the installation procedure and power the device.

The light source of this luminaire is not replaceable when the light source reaches its end of life the whole luminaire shall be replaced.

Do NOT stare at operating light source.The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 1.2m is not expected. E_{thr} = 904.8 lux.