

Conversion Equipment

ECK

ECK (Emergency Conversion Kits) comprise a high quality emergency lighting inverter module and the appropriate battery pack. Standard kits offer 4Ah High Temperature Nickel Cadmium cells in a stick format. However, side by side formats and Nickel Metal Hydride batteries are also available.

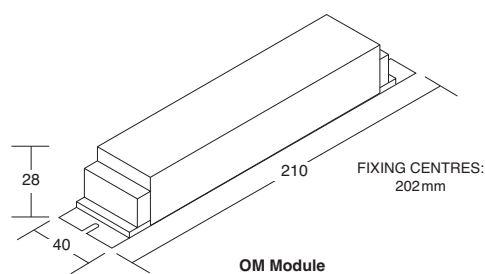
ECK kits are available with OM or OM/LP inverter modules which are referred to as 'Total Isolation' or 5-pole control units (featuring full 4pole change-over of the lamp/gear connections plus a timed fifth pole to make & break the ballast live supply). This ensures that the **ECK** conversion kits are suitable for all ballast types including HF and dimming.



STANDARD OM MODULES

The **OM** Module range has been designed to suit all emergency lighting applications requiring inverter/battery kits to be integrated into modern mains voltage luminaires. The compact dimensions provide flexibility for internal component layout and the push-wire/IDC terminals simplify assembly whether manual or robotic. Case temperature (tc) rated at 70°C.

The modules fully comply to EN61347 and EN60925



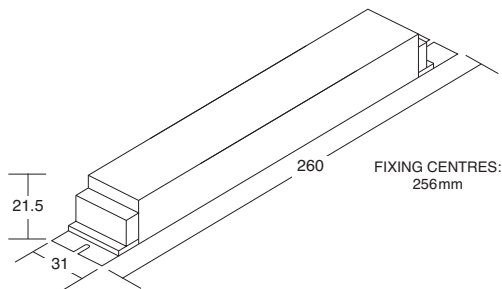
Conversion Equipment

LOW PROFILE OM/LP MODULES

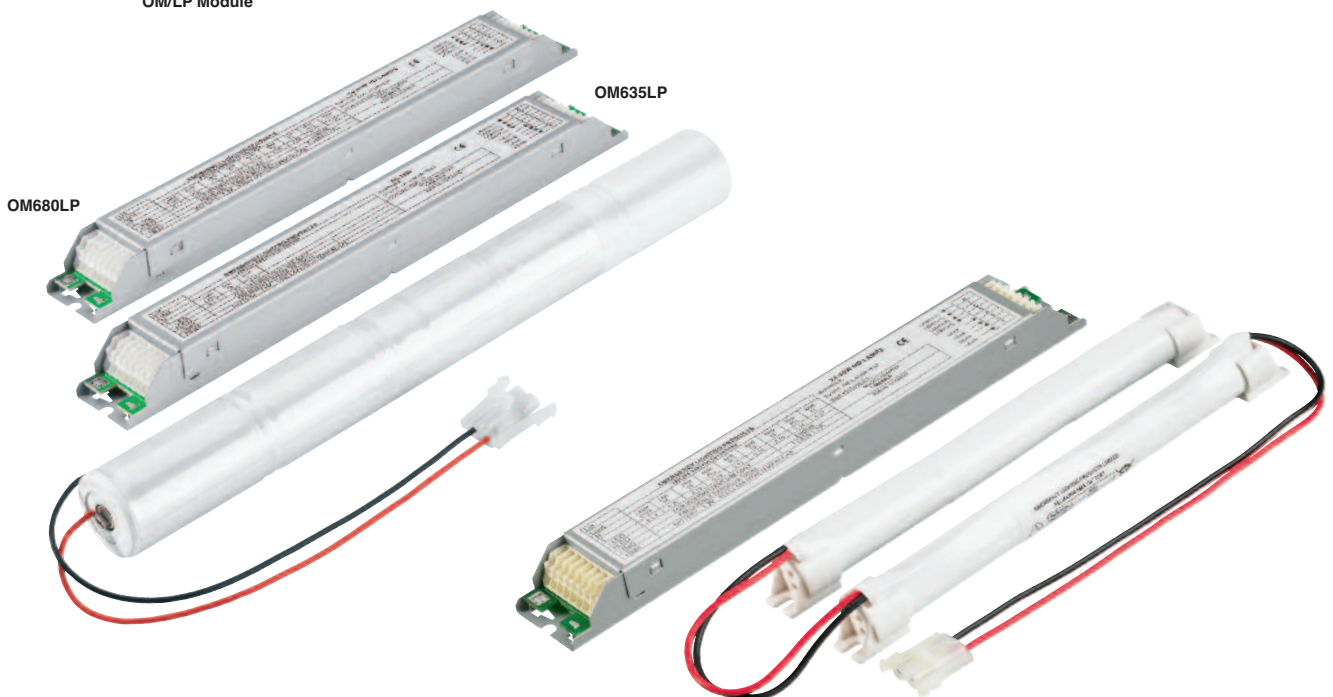
The **OM/LP** Modules have been designed to suit all common T5 fluorescent luminaires.

The **OM680/LP** covers all high output lamps from 40 to 80Watts and for specific operation of lamps up to 40Watts there is the **OM635/LP**.

Ballast Lumen Factors and basic performance of the **OM680LP** module is identical to the standard **OM680** module. The compact dimensions provide flexibility for internal component layout and the pushwire terminals simplify manual or robotic assembly. Case temperature (tc) rated at 70°C. The **OM635/LP** & **OM680/LP** low profile modules are fully compliant with EN61347 and EN60925



OM/LP Module



OM680LP — shown with standard B041 slim-line battery pack

Emergency Lighting Products Limited

Parbrook House, Gillmans Industrial Estate, Natts Lane Billingshurst, West Sussex RH14 9EZ

Telephone: +44 (0) 1403 786601 Fax: +44 (0) 1403 786602 e-mail:sales@elp.uk.com www.elp.uk.com



Conversion Equipment

BATTERY PACKS

Standard **ECK** conversion kits are supplied with 4Ah 'D' size high temperature Nickel Cadmium cells in stick format although side by side packs are also available.

For the **ECK635/LP** & **ECK680/LP** Low Profile kits, battery packs made up of two 3cell sticks using 4Ah A-size Nickel Metal Hydride batteries are supplied as standard to complement the height of the Low Profile **OM/LP** modules.
NB: 4Ah C-size Nickel Metal Hydride cells are also available offering a shorter pack length.

All available batteries are connected to the appropriate module via a non-reversible plug & socket. All modules are calibrated to give the optimum light output from the largest lamp wattage within the stated range. The Ballast Lumen Factors are measured at the nominal battery voltage following ICEL lamp and ballast compatibility tests. The 4Ah battery pack will provide a 3hour duration for at least 4years (assuming environmental limits are met).

Note: Nickel Metal Hydride (NiMH) batteries are limited to lower operating temperatures than Nickel Cadmium (NiCd) — typically NiMH batteries are limited to an absolute maximum of 50°C; NiCd batteries can withstand continuous temperatures of 55°C.

NiMH batteries also have a shelf life.

It is essential that NiMH batteries are not stored for more than six months.



Example of Stick battery supplied with ECK kits

(B003) 3.6Volt 4Ah NiCd

Single cell dimension:-
60mm (L) x 33mm (Dia.)



Example of side by side battery available for ECK kits

(B003SBS) 3.6Volt 4Ah NiCd

Single cell dimension:-
60mm (L) x 33mm (Dia.)



Standard battery for ECK635/LP and ECK680/LP (Low-Profile)

(B041) 7.2Volt A-size 4Ah NiMH battery

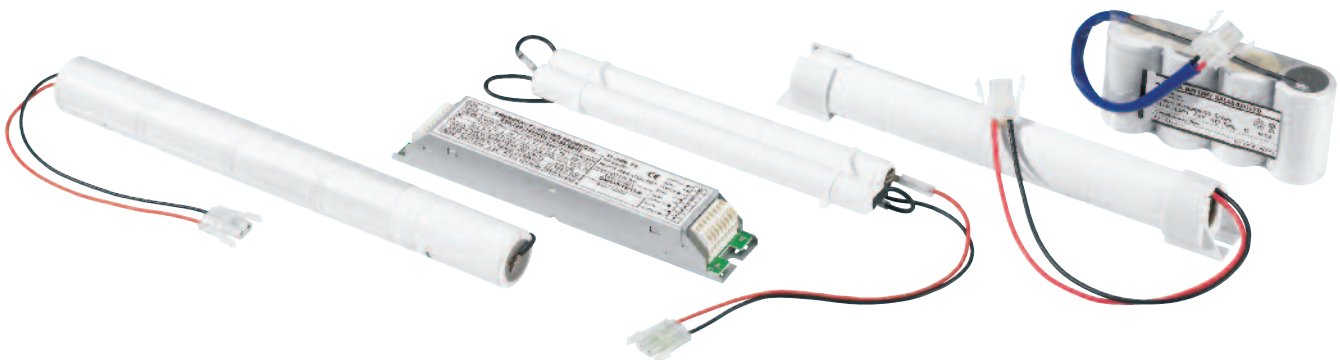
Dimensions:-
212mm (L) x 40mm (W) x 18mm (H)



Alternative battery for ECK635/LP and ECK680/LP (Low-Profile)

(B039) 7.2Volt C-size 4Ah NiMH battery

Pack Dimensions:-
150mm (L) x 58mm (W) x 28mm (H)



FIXING CENTRES FOR BATTERY PACKS WITH END CAPS

4Ah 'D' NiCd — single cell 60mm (L) x 33mm (dia.)

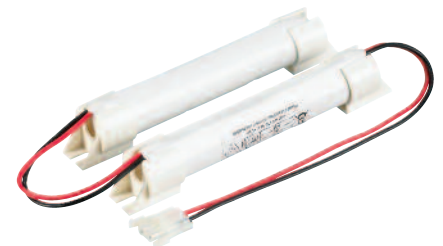
3-cell (1x3 cell stick)	4-cell (1x4 cell stick)	4-cell (2x2 cell sticks)	5-cell (2cell+3cell)	6-cell (2x3 cell sticks)
200mm	260mm	140mm	320mm	200mm

4Ah 'A' NiMH — single cell 70.8mm (L) x 18mm (dia.)

3-cell (1x3 cell stick)	4-cell (1x4 cell stick)	4-cell (2x2 cell sticks)	5-cell (2cell+3cell)	6-cell (2x3 cell sticks)
230mm	—	160mm	160mm + 230mm	230mm

4Ah 'C' NiMH — single cell 50mm (L) x 26mm (dia.)

3-cell (1x3 cell stick)	4-cell (1x4 cell stick)	4-cell (2x2 cell sticks)	5-cell (1x5 cell sticks)	6-cell (2x3 cell sticks)
170mm	220mm	120mm	270mm	170mm



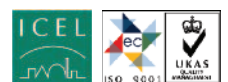
BO39 Alternative battery pack for LP (low-Profile) modules

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ECKDS-04-16



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LAMP SELECTION and BLF (%)

LAMP	OM336 ECK336	OM458 ECK458	OM570 ECK570	OM421T5 ECK421T5	OM524/49 ECK524/49	OM539/54 ECK539/54	OM635/LP ECK635/LP	OM/ECK680 OM/ECK680/LP
9W TCSEL	18	18	18	.	.	.	.	.
10W TCD	.	.	.	21	.	.	.	.
11W TCS	17	18	20	21	.	.	.	.
13W TCD	.	.	.	20	.	.	.	.
13W TCT	.	.	.	21	.	.	25	.
13W T5	17	18	21	.	.	.	.	.
14W T5	.	.	.	19	.	.	26	.
16W 2D	.	.	.	18	.	.	24	.
18W TCL	.	.	.	15	.	.	22	.
18W TCD	.	.	.	15	.	.	21	.
18W TCT	.	.	.	15	.	.	20	.
18W T8	12	13	14	.	.	.	20	.
21W T5	.	.	.	14	.	.	24	.
24W TCL	.	.	.	14	.	.	20	.
24W TCF	21
24W T5	9	.	20	.
26W TCD	.	.	.	14	.	.	20	.
26W TCT	.	.	.	13	.	.	20	.
28W 2D	.	.	.	14	.	.	20	.
28W T5	21	.
32W TCT	16	17
35W T5	20	20
36W TCL	18	18
36W T8	9	10	11	.	.	.	.	.
36W TCF	15	15
38W 2D	15	15
39W T5	6	10	10
40W TCL	12
42W TCT	12
49W T5	6	.	.	10
50W T8	.	7	8	.	.	.	.	.
54W T5	5	.	10
55W 2D	11
55W Circ	12
55W TCL	.	7	8	.	.	9	.	14
57W TCT	.	.	8	.	.	.	.	10
58W T8	.	7	8	.	.	.	.	.
70W T8	.	.	7	.	.	.	.	9
80W T5	7
80W TCL	8

NOTES:

- Product codes indicate module or kit i.e. OM (module) or ECK (kit) plus the number of cells required for the battery voltage and the optimum lamp wattage e.g. OM458 — module requires 4 cells (4.8 volts) and is optimised for 58Watt lamps.
- All ECK kits are available in a remote enclosure where the physical size or internal temperatures of a luminaire make an integral conversion impractical. Please order: /REC