www.ledespecial.com

Energia solar led S. L
calle Rio Tormes 13 Fuenlabrada 28947 Madrid Spain
Email: energiasolarled2008@gmail.com
0034 916426626

Model: **ESL-A1**

A1 Series IP66 & IK10 Waterproof LED Batten

A1 series LED tri-proof lights offer 4 models for diverse voltage, sensor and emergency lighting demands.



Energy-efficient & long lifetime

Max efficacy up to 160lm/W, L75 lifespan ≥50,000hrs

Rich specification options

Available 600/1200/1500mm, max output up to over 8100lm, CCT 2700K~6500K adjustable

Upgraded structural & electrical design

Reinforced anti-UV flame retardant PC housing, robust metal fasteners, toolless pluggable waterproof wiring, IK10 impact resistance

Global Certifications & Flexible Warranty

CE/UKCA/RCM/ETL approved; standard 5-year full fixture warranty, emergency battery 4-year warranty

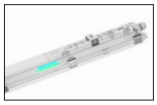
Rugged, efficient luminaire for warehouses, cold storage, car parks & industrial lighting. Direct fluorescent replacement.

- Core Protection Rating: All models feature IP66 dustproof & waterproof, IK10 high impact resistance, and 1kV L/N-FG surge protection. Beam angle: 120°. Standard CRI ≥80, optional CRI ≥90. CCT range: 2700K~6500K (tested at 5000K, all parameters ±5% tolerance).
- Structure & Materials: PC diffuser, PC/PC+ABS housing, CRCA reflector; standard grey finish (RAL7035). Supports 3 installation methods: surface mount, wall mount, suspension mount. Equipped with 923 terminal blocks, supporting loop-in/loop-out wiring, compatible with Φ1.0~2.5mm² conductors.
- Operating Environment: Operating temperature range: -10℃~+50℃ for standard models, 0℃~+50℃ for emergency models. Operating humidity: 10%~95% RH (non-condensing). Ideal for harsh environments with moisture, dust and wash-down conditions.
- Warranty & Certifications: 5-year full fixture warranty; 4-year separate warranty for emergency batteries. Drivers certified to CE, TUV, CB, ENEC, RoHS2.0 standards. Direct 1:1 replacement for traditional fluorescent tubes, tool-free installation & maintenance.

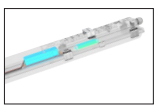
Product Versions



A1N Standard
Input: AC 200~240V, 50/60Hz
Efficacy: 120~125 lm/W
Cost-effective & reliable for industrial, indoor and outdoor use



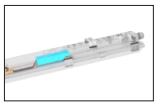
A1S Sensor
Input: AC 200~240V, 50/60Hz
Efficacy: 120~125 lm/W
Daylight & microwave dual sensors, high energy saving.
Module: MC004-S02/R + MR003



A1-E/SE Emergency & Sensor
140lm/W (±10%), Class I, multiple certifications
AC 220~240V; 3W emergency power, 3h backup
Full protection, auto test function. Battery: 1140-02



A1GU Wide-Voltage
Input: AC 100~264V, 50/60Hz
Efficacy: 140~160 lm/W, flicker-free with Lifud driver
Global voltage compatibility, easy installation & maintenance.



A1-LV/LE Low-Voltage Emergency
For temporary & explosion-proof areas, Class III
Input: DC 24~48V, 3h emergency duration
140lm/W (±10%), CE/CB/SAA approved
LiFePO4 battery available in multiple models

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Warnings and Safety

- UV radiation will damage the material over time resulting in loss of waterproof sealing and IP65 rating.
- Do not install the luminaire in locations where it will be exposed to direct sunlight.

Specifications

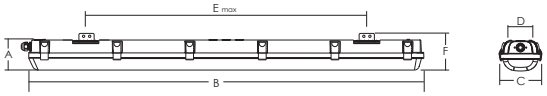
Mounting type	Surface
	Suspended
Operating Temperature range	-30 to +50°C
Light Source	SMD2835
Mains Voltage	220-240Vac or 120-277Vac / 50-60Hz
Control system input	ON/OFF | RF | DALI | 0-10V
Material	PC+Alu.6063
Main color of the luminaire	RAL9016
Lumen maintenance at median useful life	L90B10, 50,000hr
Flicker free	Yes
Luminous flux	Up to 10000lm
Luminaire efficacy	Up to 160lm/W
Correlated color temperature - CCT	4000K
	6500K
Color Rendering index -	81

Risk Group	RG0
Optical cover/lens material	PC
Optical cover/lens finisha	Opal
	Clear
Protection Class	Class I
Driver replaceable	No
Installation	Suspension
	Surface

General Information

Light Technical	
Color rendering index (CRI)	80
Operating and Electrical	
Protection class IEC	Safety class I
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Mechanical and Housing	
Mech. impact protection code	IK08
Approval and Application	
CE mark	Yes
CB mark	Yes
Flammability mark	-

Dimensional (mm)



Type	Dimension(mm)						No. of cips	N.W/PCS
	A	B	C	D	Emin	F		
Trilamp A1 2FT	72	600	80	52	260-420	74	6	0.8kg
Trilamp A1 4FT		1200			700-980		12	1.5kg
Trilamp A1 5FT		1500			940-1300		14	1.8kg

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Order Code

Specifications using 4000K and subject to change. All parameters +/- 5%.

Version	Item No.	Full Product Datasheet	Function	Sales Aera
Null	A1-2FTZZ-MMK-N	A1 600mm 18W 4000K 125LPW	Constant On	European
	A1-4FTZZ-MMK-N	A1 1200mm 36W 4000K 125LPW	Constant On	European
	A1-5FTZZ-MMK-N	A1 1500mm 54W 4000K 125LPW	Constant On	European
GU	A1-2FTZZ-MMK-GU	A1 600mm 20W 4000K 160LPW 100-264Vac	Constant On	European
	A1-4FTZZ-MMK-GU	A1 1200mm 40W 4000K 160LPW 100-264Vac	Constant On	European
	A1-5FTZZ-MMK-GU	A1 1500mm 60W 4000K 160LPW 100-264Vac	Constant On	European
SENSOR	A1-2FTZZ-MMK-S	A1 600mm 20W 4000K 125LPW 5.8G Microwave Sensor	Motion Sensor	European
	A1-4FTZZ-MMK-S	A1 1200mm 40W 4000K 125LPW 5.8G Microwave Sensor	Motion Sensor	European
	A1-5FTZZ-MMK-S	A1 1500mm 60W 4000K 125LPW 5.8G Microwave Sensor	Motion Sensor	European
E/ES	A1-2FTZZ-MMK-E/SE	A1 600mm 20W 4000K 140LPW Emergency, Microwave Sensor	Emergency&Sensor	European
	A1-4FTZZ-MMK-E/SE	A1 1200mm 40W 4000K 140LPW Emergency, Microwave Sensor	Emergency&Sensor	European
	A1-5FTZZ-MMK-E/SE	A1 1500mm 60W 4000K 140LPW Emergency, Microwave Sensor	Emergency&Sensor	European
EMG	A1-2FTZZ-MMK-LV/LE	A1 600mm 20W 4000K 140LPW Emergency 2W/3hr 24-48Vdc	Emergency	
	A1-4FTZZ-MMK-LV/LE	A1 1200mm 40W 4000K 140LPW Emergency 3W/3hr 24-48Vdc	Emergency	European
	A1-5FTZZ-MMK-LV/LE	A1 1500mm 60W 4000K 140LPW Emergency 5W/3hr 24-48Vdc	Emergency	European

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