

Weatherproof LED luminaire DUNA FLEX | High Efficiency

70,000 h product life

5 YEARS
warranty

IP 66	IK 03
Frequency 0-50/60Hz	Rated voltage 220-240V
650°C	NON-SELV
UV +35°C -25°C	



DHE 1.2 41-840 ET SMC DPM IX CG

General characteristics

- LED module luminaire manufactured with high quality materials for a long life product
- The DUNA FLEX High Efficiency delivers you a bright, while overall light with less wattage and less maintenance
- Ideal for applications that require additional chemical resistance for aggressive environment
- With modern aesthetics, designed for easy installation
- Housing in compressed glass fiber reinforced polyester in grey (RAL 7035) integrating two gear tray holders to allow suspension to carry out its connection to the mains.
- Polyurethane gasket to guarantee an IP66 rating
- Stainless steel clips (INOX)
- Frosted PMMA diffuser with UV protection, manufactured in injection
- Cable gland included

Mounting accessories

- Stainless steel fixing brackets and suspension triangles included

Applications recommendation

- Chemical industry
- Food and agricultural industry
- Industrial sewage
- Desalination plant
- Paper industry
- Petrochemical industry
- Shipbuilding
- Freezing chambers
- Cold stores

Approvals and markings



Mounting possibilities



Accessories (optional)

10103049 Suspension wire 2m hook and fastener

Product Options

- Dimmable driver
- Emergency battery
- Fast connector Wieland
- Other voltages available
- PC diffuser
- Through wiring

Intelligent Options

- CLO
- HCL
- Data logging
- Data monitoring
- Bluetooth control
- Presence sensor

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Functional characteristics

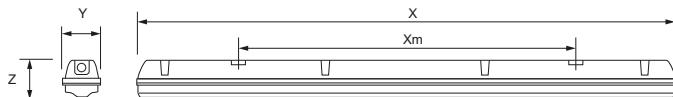
- The long life time of the LEDs decreases maintenance costs
- LED technology integrates low power consumption for greater efficiency, intelligent lighting management through a high frequency sensor, quick and easy installation thanks to plug and play system.
- Extremely safe, with a robust design with a vibration-free components directly reusable without starting time to low ambient temperatures down to -25 ° C.

General technical data

Rated voltage range	220V-240V
Rated frequency	0-50Hz/60Hz
Rated frequency in emergency modus	50Hz/60Hz
Protection class	Class I
Protection rating	IP66
Impact resistance	IK03 PMMA Diffuser
UV protection	Diffuser and body with UV protection
Fire protection	Flammability (UL94): V2 / Glow wire test (EN 60695-2-11): 650°C
THD	< 10%
Chemical agents resistance	See appendix
Color Rendering Index [CRI]	> 80
Type of control gear	Electronic transformer, switchable
Connection method	Terminal block and cable gland

Operating data | Dimensions

Designation	Special features	Luminous Flux	Efficiency	Connection load	Color Temperature	X	Xm	Y	Z
		lm	lm/W	W	K	mm	mm	mm	mm
DHE 1.2 41-840 ET SMC DPM IX CG		4100	140	29	4000	1277	800	101	84
DHE 1.5 61-840 ET SMC DPM IX CG		6100	140	44	4000	1573	1100	101	84
DHE 1.2 41-840 ET SMC DPM IX CG 3x1.5	Through wiring 3 x 1.5 mm ²	4100	140	29	4000	1277	800	101	84
DHE 1.5 61-840 ET SMC DPM IX CG 3x1.5	Through wiring 3 x 1.5 mm ²	6100	140	44	4000	1573	1100	101	84
DHE 1.2 41-840 ET SMC DPM IX CG EB3	Emergency battery 3h	4100	124	33	4000	1277	800	101	84
DHE 1.5 61-840 ET SMC DPM IX CG EB3	Emergency battery 3h	6100	127	48	4000	1573	1100	101	84



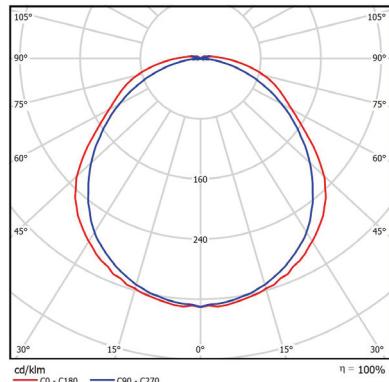
Logistical data

Designation	Order Number	Box	Groupage	Double pallet
		L x W x H mm	Pcs./Box	Pcs./Euro palett
DHE 1.2 41-840 ET SMC DPM IX CG	10171120	1277 x 101 x 101	1	1.8
DHE 1.5 61-840 ET SMC DPM IX CG	10171121	1573 x 101 x 101	1	2.3
DHE 1.2 41-840 ET SMC DPM IX CG 3x1.5	10171122	1277 x 101 x 101	1	1.8
DHE 1.5 61-840 ET SMC DPM IX CG 3x1.5	10171123	1573 x 101 x 101	1	2.3
DHE 1.2 41-840 ET SMC DPM IX CG EB3	10171124	1277 x 101 x 101	1	2.0
DHE 1.5 61-840 ET SMC DPM IX CG EB3	10171125	1646 x 104 x 84	1	2.5

Hint: For logistic estimations please contact our sales backoffice team

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Light characteristic



DHE 1.5 61 SMC DPM IX ET CG

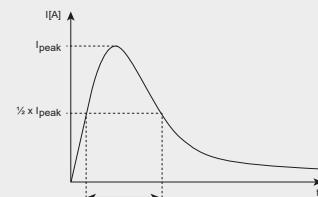
Other models similar distribution with different intensities

Circuit breaker/inrush current

Order Number	typ. $I_{peak}/\Delta t$	Number of ECGs on single-pole power circuit breakers (CB)			
		CB-Type	10 A	16 A	20 A
10171120	36 A / 150 µs	B	15	24	30
		C	25	40	50
10171121	36 A / 150 µs	B	15	24	30
		C	25	40	50
10171122	36 A / 150 µs	B	15	24	30
		C	25	40	50
10171123	36 A / 150 µs	B	15	24	30
		C	25	40	50
10171124	36 A / 150 µs	B	15	24	30
		C	25	40	50
10171125	36 A / 150 µs	B	15	24	30
		C	25	40	50

- Data for Usupply = 230 VAC, mains impedance = 1 Ω
- In case of multi-polar CB the maximum number is reduced by 20 %
- The max. number may differ depending on CB manufacturer. Please consider the specifications of the manufacturer.
- Basically, CB with C-characteristics are recommended to be used in lighting groups.

Typical current-time profile of inrush current



Product life

T ^a Range	L Value	Lifetime
25°C	L70	70,000 h

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Conformity to standards

Electrical equipment designed to be used with certain voltage limitations

EN 60598-1	Luminaires - Part 1: General requirements and tests
EN 60598-2-1	Luminaires - Part 2: Particualr requirements. Section 1: General purpose luminaires

Electromagnetic compatibility

EN 55015	Limits and methods of measurement of radio disturbance characteristics of electric lighting and similar equipment. Characteristics of electric lighting and similar equipment
EN 61000-3-2	Electromagnetic compatibility [EMC] Part 3-2: Limits - Limits for harmonic current emissions
EN 61000-3-3	Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
EN 61547	Equipment for general lighting purposes EMC immunity requirements
EN 62471	Photobiological safety of lamps and lamp system
EN 62493	Assessment of lighting equipment related to human exposure to electromagnetic fields

APPENDIX

Chemical Agents	Polyester	Polycarbonate	Aluminium	PMMA	Stainless steel
Acetic acid 10%	✓	✓	✓	✓	✓
Acetone	Ø	X	✓	X	✓
Alcoholic beverages	✓	✓	✓	Ø	✓
Aluminium sulphate	✓	✓	✓	✓	Ø
Ammonia 5%	Ø	X	✓	✓	✓
Aniline	Ø	X	✓	X	✓
Arsenic acid 20%	Ø	✓	✓	✓	✓
Benzene	X	X	✓	X	Ø
Bencylic alcohol	X	X	Ø	X	Ø
Bromine	X	X	X	X	X
Calcium Chloride	✓	✓	✓	✓	Ø
Calcium nitrate	✓	✓	✓	✓	Ø
Carbon tetrachloride	X	X	✓	X	Ø
Carbonic acid	✓	X	✓	X	✓
Caustic potash 5%	X	X	X	✓	Ø
Cement	✓	✓	✓	✓	Ø
Hydrochloric acid 1-5%	Ø	✓	X	✓	X
Chlorine liquids (vapours)	X	X	X	X	Ø
Chloroform	X	X	✓	X	✓
Chromic acid	X	Ø	X	Ø	Ø
Citric acid 20%	✓	✓	✓	✓	Ø
Copper sulphate	✓	✓	X	✓	Ø
Diesel-naptha oil	✓	Ø	✓	✓	✓
Ethyl alcohol 30%	✓	✓	✓	Ø	✓
Ethyl chloride	X	X	Ø	X	✓
Ethyl ether	✓	X	✓	X	Ø
Food oils and fats	✓	X	✓	✓	✓
Formic acid 10%	Ø	✓	X	✓	Ø
Glycerine	✓	✓	✓	✓	✓
Hexane	Ø	✓	✓	✓	✓
Iodine	✓	X	Ø	✓	X
Isopropylic alcohol	✓	Ø	✓	Ø	Ø
Lubricating oil	✓	✓	✓	✓	✓
Magnesium sulphate	✓	✓	✓	✓	✓
Methanol	✓	X	✓	Ø	✓
Mineral oils	✓	✓	✓	✓	✓
Nitric acid 20%	X	Ø	X	✓	✓
Oxygen	✓	✓	✓	✓	✓
Ozone	✓	✓	✓	✓	Ø
Perchloric acid 10%	X	✓	X	✓	X
Petrol	✓	X	✓	✓	✓
Phenol	Ø	X	✓	X	Ø
Pothassium bromide	✓	✓	Ø	✓	Ø
Pothassium nitrate	✓	✓	✓	✓	Ø
Pothassium permanganate	✓	✓	✓	✓	Ø
Sea climate	✓	✓	Ø	✓	Ø
Silicon oils	✓	✓	✓	Ø	✓
Soda bleach 15%	✓	X	Ø	✓	Ø
Sodium chloride	✓	✓	Ø	✓	Ø
Sodium hydroxide 5%	✓	X	X	✓	Ø
Sodium sulphate	✓	✓	✓	✓	Ø
Sugar	✓	✓	✓	✓	✓
Sulphur	✓	✓	✓	✓	Ø
Sulphuric acid 30%	X	✓	X	✓	X
Toluene	X	X	✓	X	✓
Trichloroethylene	X	X	✓	X	Ø
Zinc sulphate	✓	✓	Ø	✓	Ø

✓ Resistant Ø Relatively resistant X Non-resistant