

PRODUCT DATASHEET

DP MAX EL 600 S 18W 840 VW IP69

DAMP PROOF MAX EMERGENCY | Tubular damp-proof luminaires with extra high IP, IK protection and integrated emergency lighting function



Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Food industry
- Open car parks and underpasses
- Car wash facilities
- Outdoor applications
- Industrial and storage facilities

Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Convenient visualization of results of automatic test with an included control LED
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- Uniform light distribution in normal operation
- Versatile applications due to resistance to many chemicals and UV light

Product features

- Luminaire suitable for normal lighting and emergency lighting
- Suitable for emergency central battery installations acc. to EN 60598-2-22
- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)



- Battery technology: LiFePO₄
- Type of protection: IP66, IP69 (80 °C)
- Impact resistance: IK10
- Ammonia resistant
- UV-resistant PMMA diffuser
- Compatible to Zhaga Book 7 LED light sources

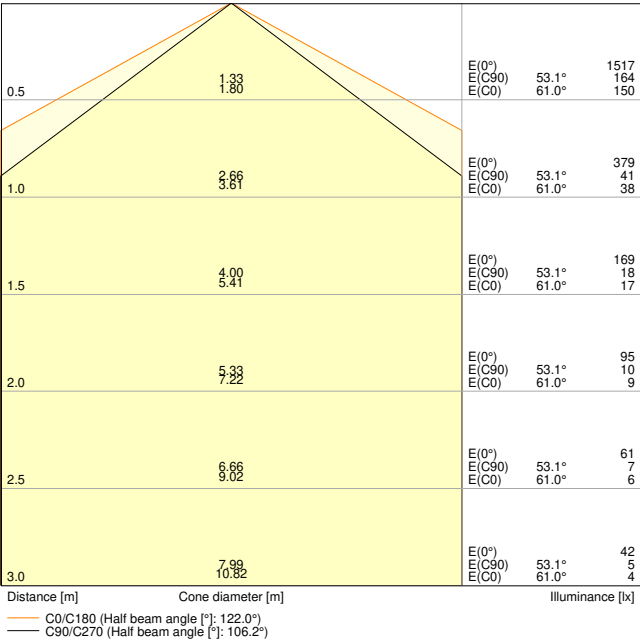
TECHNICAL DATA

Electrical data

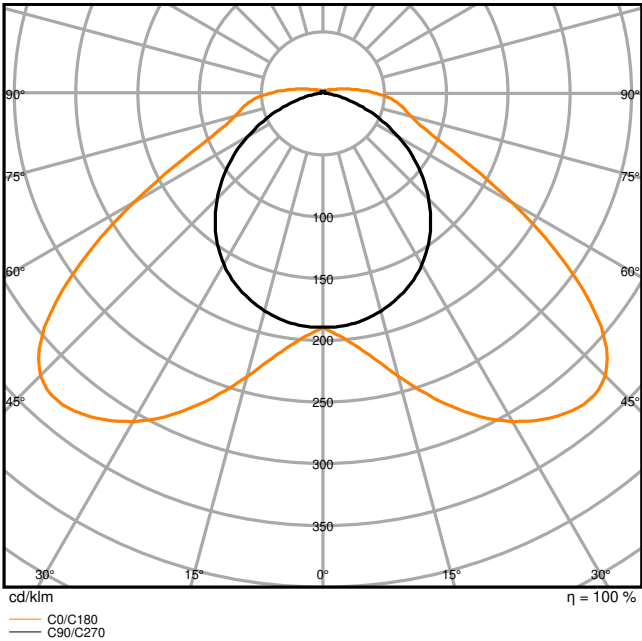
Nominal wattage	18.00 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	65.000 mA
Inrush current	22.64 A
Inrush current time T_{h50}	203 μ s
Max. number of luminaires per miniature circuit breaker B16	27
Max. number of luminaires per miniature circuit breaker C10	28
Max. number of luminaires per miniature circuit breaker C16	45
Power factor λ	0.83
Total harmonic distortion	< 15 %
Protection class	I
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Operating mode	Integrated LED driver

Photometrical data

Luminous flux	2000 lm
Total luminous flux of contained light sources	2215 lm
Luminous efficacy	111 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	≤ 1
Stroboscope effect metric (SVM)	≤ 0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	133 ° x 107 °
UGR	< 25



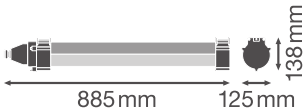
DP MAX EL 600 S 18W 840 VW IP69 LEDV



DP MAX EL 600 S 18W 840 VW IP69 LEDV

Dimensions & Weight

Length	885.00 mm
Width	125.00 mm
Height	138.00 mm
Product weight	3300.00 g



DP MAX 600 840

Materials & Colors

Product color	Gray
Housing color	Gray
Body material	Polymethylmethacrylate (PMMA)
Cover material	Polymethylmethacrylate (PMMA)
Light emitting surface material	Polymethylmethacrylate (PMMA)
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	0...+35 °C
Temperature range at storage	-20...+35 °C
Type of connection	Screwless terminal, 3-Pole
Type of protection	IP66~IP69K
Protection class IK (shock resistance)	IK10
Dimmable	No
Mounting type	Surface/Suspended
Mounting location	Ceiling / Wall
Application environment	Outdoor
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	100000 h ¹⁾
Lifespan L80/B10 at 25 °C	100000 h ¹⁾
Number of switching cycles	> 200000

¹⁾ t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L80 / B50 @ 35 °C (Ta)

Control gear

Output current	75...400 mA
ECG - Output ripple current	1.5 %
Recommended control gear	OT FIT 75/220-240/550 D NFC L

BATTERY

Type of Battery	LiFePO4
Battery size [GMS]	Others
Nominal voltage of battery	3.2 V

Nominal capacity of battery	4500 mAh
Battery charging time	< 24 h

Emergency lighting

Area of emergency application	Anti-panic lighting / Escape route lighting
Type of emergency light operation	Maintained / Non-maintained
Type of emergency operation test	Automatic
Wattage in maintained operation mode	18 W
Wattage in emergency operation mode	2.3 W
Luminous flux in maintained operation mode	2000 lm
Luminous flux in emergency operation mode	500 lm
Battery life in emergency operation mode	3 h

Certificates & Standards

Standards	CE / CB / ENEC / UKCA / EAC
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

Accessories Optional

Product image	Product name	EAN
	DP MAX MOUNTING BRACKET CLAMPS V4A	4099854583360
	DP MAX MOUNTING TUBE CLAMPS V4A	4099854583384

EQUIPMENT / ACCESSORIES

- Stainless steel clamps and M25 cable gland included

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	DAMP PROOF MAX
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	DP MAX EL
	Legal information	Safety Insert G11205497
	Legal information	Legal Insert G11251141
	Declarations of conformity	DP MAX Emergency
	Declarations of conformity UKCA	DP MAX Emergency
Photometric and lighting design files		Document name
	IES file (IES)	DP MAX EL 600 S 18W 840 VW IP69 LEDV
	LDT file (Eulumdat)	DP MAX EL 600 S 18W 840 VW IP69 LEDV
	UGR file (UGR table)	DP MAX EL 600 S 18W 840 VW IP69 LEDV
	Light distribution curve type cone	DP MAX EL 600 S 18W 840 VW IP69 LEDV
	Light distribution curve type polar	DP MAX EL 600 S 18W 840 VW IP69 LEDV
CAD/BIM files		Document name
	BIM Revit 3D	DP MAX
	CAD STEP 3D	DP MAX 600

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854538254	Shipping box 1	1,016 mm x 165 mm x 146 mm	4063.00 g	24.48 dm ³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

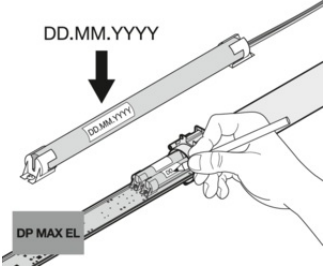
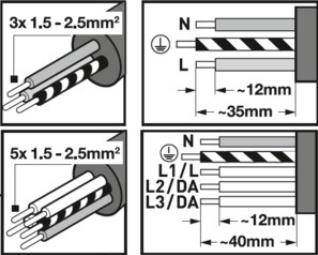
ADDITIONAL CATALOG INFORMATION

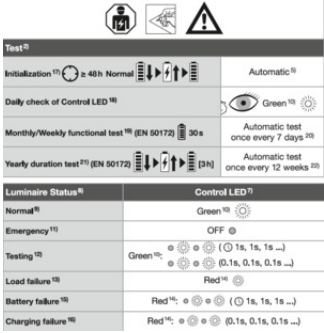




DP	8W	12W	18W
DP MAX 600	36	36	42
DP MAX 1200	36	36	60
DP MAX 1800	36	36	90

TH 1.8m	max. 10A
TH 1.8m	max. 10A





Test	Control LED
Initialization ⁽¹⁾ ≥ 48h Normal	Automatic ⁽²⁾
Daily check of Control LED ⁽³⁾	Green ⁽³⁾
Monthly/Weekly functional test ⁽⁴⁾ (EN 50172) 90s	Automatic test once every 7 days ⁽⁵⁾
Yearly duration test ⁽⁶⁾ (EN 50172) 3h	Automatic test once every 12 weeks ⁽⁷⁾
Luminaire Status ⁽⁸⁾	Control LED ⁽⁹⁾
Normal ⁽⁸⁾	Green ⁽⁹⁾
Emergency ⁽¹⁰⁾	OFF ⁽⁹⁾
Testing ⁽¹¹⁾	Green ⁽¹²⁾ (1s, 1s, 1s ...)
Load failure ⁽¹³⁾	Red ⁽¹⁴⁾ (0.1s, 0.1s, 0.1s ...)
Battery failure ⁽¹⁵⁾	Red ⁽¹⁴⁾ (1s, 1s, 1s ...)
Charging failure ⁽¹⁶⁾	Red ⁽¹⁴⁾ (0.1s, 0.1s, 0.1s ...)

References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.