

DCW097-HVDC 120 2500lm 16W 840 II IP66 PMMA 230VAC/220VDC Switch

Symmetric · 4000 K · IP66 · IK05 · RAL 7035



Length 99 mm

APPLICATION

DCW097-HVDC is a versatile waterproof luminaire designed for operation from both standard 230 VAC mains and high-voltage 220 VDC power systems. This dual-input capability makes it especially suitable for substations, power plants, battery rooms, industrial facilities and central battery emergency-lighting systems. During normal operation, the luminaire can be powered from the AC mains and continue operating from a DC supply when required by the installation. The product family offers light outputs from 2500 lm to 11,500 lm and high system efficacy of up to 170 lm/W. The IP66 glass-fibre-reinforced polyester housing, PMMA diffuser and reliable Philips Xitanium driver provide long-lasting operation in demanding environments. A polycarbonate diffuser is available as an option where increased impact resistance is required.

4500 lm SYSTEM FLUX	16 W INPUT POWER	173 lm/W EFFICACY	4000 K CCT	≥80 CRI	IP66 INGRESS	IK05 IMPACT	50 000 h L90B10
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ELECTRICAL PARAMETERS

Nominal supply voltage	230VAC/220VDC	Supply voltage range	230VAC/220VDC
Type of supply current	AC/DC	Supply frequency	N/A
Rated input power	16W	Power factor (PF)	0.95
Driver efficiency at nominal load	92%	Protection class (electric shock)	I
Driver type	Philips Xitanium		

PHOTOMETRIC PARAMETERS

Luminous flux — system	4500lm	Luminous flux — LED module	5000lm
Luminous efficacy — system	173lm/W	Correlated colour temperature (CCT)	4000 K
Colour rendering index Ra (CRI)	≥80	Init. CRI tolerance	±3
Light distribution type	Symmetric	Luminaire beam spread	120.0°
Optic type	N/A	Light output ratio (LOR)	0.9
Photobiological safety class	RG0	Flicker — Output PstLM / SVM	≤0.1 / ≤0.2
Colour consistency (SDCM)	< 3 MacAdam steps	Upward light output ratio (ULOR)	N/A
Luminous flux tolerance	±5 %		

CONSTRUCTION & MATERIALS

Luminaire type	Dust/Waterproof	Light source type	LED
Light source replaceable	yes	Cap / base type	Integrated
Housing material	GRP	Reflector material	N/A
Housing coating	N/A	Optic material	PMMA
Optical cover material	N/A	Housing colour (RAL)	RAL 7035
Mounting type	Surface, suspended	Cutout size	N/A
Overall dimensions (H × W × L)	99x100x1185	Weight (net)	1.5kg
Effective projected area	N/A	Windage projection area (side / below)	N/A
Number of light sources	1 pcs	Number of gear units	1 pcs

PROTECTION & ENVIRONMENT

IP rating — enclosure	IP66	Impact resistance class IK	IK05
Operating temperature range	-40...+35 °C	Storage temperature range	-40...+65 °C
Glow-wire test	650 °C / 5 s	Relative humidity (max)	N/A

CONTROL & DIMMING

Dimmable	No	Control protocol / interface	on/off
Dimming range	N/A	Built-in motion / presence sensor	NO

RELIABILITY & LIFETIME

Light source lifetime	50000 @ L80 B10h	Lumen maintenance @ 50 000 h	L80B10
Lumen maintenance @ 100 000 h	L70 B10	Control gear failure rate @ 50 000 h	5 %
Control gear failure rate @ 100 000 h	10 %	Maximum case temperature Tc	75°C

CERTIFICATIONS

Warranty period	5 years	CE marking	Yes
ENEC mark	No	ENEC+ mark	No
UKCA marking	Yes	D4i certified (DALI)	No
EU RoHS compliant	Yes	Light source energy efficiency class	C

STANDARDS & SUSTAINABILITY

Applicable standard	EN-IEC 62722-2-1	ETIM Class	EC002892
Recyclable content ratio	Not determined	Non-virgin material ratio	Not determined
Sustainability rating	Not determined	EAN / UPC	Not determined

Application **Industry, warehouses, parkings, Emergency lighting areas**

Environmental data. Embedded carbon, recyclable content and sustainability ratings are provided per article where determined.

Documents. Photometric files (IES / LDT) and installation instructions are available at takton.ee.