DCW097-HVDC 150 11500lm 74W 840 II IP66 PMMA 5G1.5 FC 230VAC/220VDC Switch

Symmetric · 4000 K · IP66 · IK05 · RAL 7035



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.

8000 lm	74 W	163 lm/W	4000 K	≥80	IP66	IK05	50 000 h
SYSTEM FLUX	INPUT POWER	EFFICACY	CCT	CRI	INGRESS	IMPACT	L90B10

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	74W	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	8000lm	Luminous flux — LED module	8900lm
Luminous efficacy — system	163lm/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)	99x100x1477	Weight (net)	1.8kg
Effective projected area	N/A	Windage projection area (side / below)	N/A
Number of light sources	2 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**
D-Mark (EN 60598-2-24)	**Not determined**	Non-virgin material ratio	**Not determined**
Sustainability rating	**Not determined**	EAN / UPC	**Not determined**
Application areas	**Industry, warehouses, parkings, Emergency lighting**		

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.