DCW097-HVDC 120 8000lm 49W 840 II IP66 PMMA 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.

5000 lm	49 W	179 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	**49W**	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	**5000lm**	Luminous flux — LED module	**5600lm**
Luminous efficacy — system	**179lm/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**
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.