

## TECHNICAL DATASHEET

### DRIVELUX Flame Proof Well Glass Light PREMIUM RANGE

DRIVELUX offers Premium range of LED Flame Proof Well Glass Light Fitting from 30watt to 100watt. Premium range is designed to deliver excellent and uniform light output across installation. This range is designed drive at minimum case temperature to achieve higher sustainability. High optics efficiency > 87% light transfer and unique thermal management. Control gear efficiency > 90%. Product Design for Indoor / Outdoor Application

#### Key Features and benefits:

- Delivers excellent light output across installation
- Fully potted electronic control gear to ensure zero maintenance
- Average life of 50,000 Burning hours
- Instant light output with low running temp
- Energy efficient saving up to 50%
- No mercury as Light source is LED
- No harmful and IR Radiations
- Standard Warranty 3 Years

#### Higher efficiency:

- Higher lumens efficiency 172 lumens/watt (Usage of OSRAM and Bridgelux LED)
- Highly efficient optics having >89% light transfer efficiency
- Most trusted electronic control gear efficiency > 90% (Usage of Inventronics / Fulham/ Philips)
- Driving LED's at defined current to achieve maximum lumens efficiency



FLP WG  
60 W



FLP WG  
30 W – 45 W



FLP WG  
80 W – 100 W

### Higher Sustainability :

- COB type LED source which can withstand upto 140 degree temperature, Minimum case temperature to achieve higher sustainability
- Electronic control gear having overvoltage, short circuit, Surge, Over temperature protection.
- PC optics up to 150 degree without any deformation
- Efficient thermal management increases overall sustainability of LED fixtures

### Unique Thermal Management:

- Design heat sink on basis of Fins ratio, Fins position, airflow for maximum utilization.
- Using highly effective aluminium material in thermal management for high heat conductivity and low heat resistance.
- Maintaining case/ Junction temperature 40% lower than LED temperature limitation with innovative thermal management.

### Optics Design:

Usage of efficient glass optics to get light spreading as per application from 5 to 180 degree spreading angle including multiple spreading angles based on application at site.

### Applications:

- Chemical Industries
- Oil Refinery
- Mining Industries
- Petrochemical Industries
- Hazardous Industries
- Railway

### Certification :

- CMRI Approved
- PESO Approved



### Technical Specification :

MOC of Enclosure / Luminaire Housing	PDC Aluminum alloy housing with durable Epoxy powder coating.
MOC of Optic	Borosilicate Glass Lens
IP	IP 66
Connection Type	Single channel for Input ( LILO Available )
Mounting Type	Eye Bolt
MOC of Reflector	NA
MOC of Driver Box	PDC Aluminum alloy housing with durable Epoxy powder coating
Safety Provision	J Hook

### Luminaries Specification

Available Models .....	30 W / 45 W / 60 W / 80 W / 100 W
I/P Voltage Range .....	90~305 VAC
I/P Frequency .....	50Hz-60Hz
I/P Current .....	As per Technical Specification Table
Power Factor .....	>0.96
Athd.....	<10%
Electrical Efficiency .....	91.5%
Light Spreading Angle .....	90° / 120°
Temperature Class .....	T6
IP Standard .....	IP66 Outdoor
Total Weight .....	As per standard parameters
Starting Time .....	Rapid 0.2 Sec.
Warranty .....	03 Years

### LED Driver Specification

Type of Driver .....	CC mode ( Constant Current)
Make .....	Inventronics / Meanwell
I/P Voltage Range .....	90~305 VAC
Frequency Range .....	50Hz
PF ( Power Factor) .....	>0.96
THD ( Total Harmonic Distortion) .....	<10%
SP ( Surge Protection) .....	10KV Device
Protection .....	IPOV ( Over Voltage Protection), SP ( Surge Protection), IUVP ( Under Voltage Protection ), TP ( Thermal Protection), OOP (Output Overload Protection), SC ( Short Circuit Protection)

### LED Specification

Light Source .....	COB ( Chip On Board)
Lamp Life .....	63,000 Hours
Light Source Make .....	Citizen – Singapore, Bridgelux - USA
Lamp Efficacy .....	172 Lu/W
Colour Temperature .....	3000K – 6500K
CRI .....	> 70 / > 80
Certification & Reports .....	LM 70 / LM80/Photo Bio Test / Vibration Test

**Optics Specification**

Optics Type ..... Diffuser Glass Lens

MOC of Optics ..... Glass Lens

**Fixture / Heat sink Specification**

Make of Fixture ..... Ideal / Agnus / Sudhir / Shyam

MOC Heat sink ..... Aluminum PDC

 Junction Temperature –t<sub>j</sub> ..... 83°

 Case Temperature –t<sub>c</sub> ..... 72°

**Electrical Specifications :**

Model No :	System Wattage (W)	Lamp Lumens	I/P Current	I/P Voltage (AC)	O/P Current (mA)	O/P Voltage DC	Outer Dimension mm	Fixture Height mm	Weight - (Approx. in KG)
FLPWGCOB-30P	30	4437	0.380	90~310	700	35-37	335	270	5.0
FLPWGCOB-45P	45	6656	0.380	90~310	1050	35-37	335	270	5.0
FLPWGCOB-60P	60	8875	0.600	90~310	1600	35-37	480	255	7.0
FLPWGCOB-80P	80	11833	0.910	90~310	2000	35-37	625	300	8.5
FLPWGCOB-100P	100	14792	1.200	90~310	2500	35-37	625	300	8.5

Note- 1 ) As design is a continuous improvement process, technical specifications & Price are subject to change without prior notice.

2) Product specifications tolerance +-8-10%.



**For more information call:**

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