GDS Lamp

C35

DATASHEET

GDS Pioneering Light
a Coemar Company

A range of lamps powered by Drive Hub & IPM. Designed to allow a large number of lamps to be driven on a single circuit, replacing tungsten in a wide range of applications. Low voltage with highly efficient optics that re-create the classic sparkle of traditional lamps.

IPM is a revolutionary driver technology that can provide both power and six channels of control data over legacy or new 2-core cabling with perfectly uniform dimming.

Multiple selectable personalities allow the lamp to operate in a mode that suits any environment, with configurable colour temperature and fade-to-warm options alongside flicker effects for candle-like operation.

The candle version fits the standard form-factor for C35 lamps and is offered with a clear envelope as standard.

Key Features

- Powered by IPM
- Multi-channel control
- Adjustable colour temperature
- Multifaceted wide beam lens
- 5 Configurable personalities

Technical Parameters

Control Method	IPM
Personalities	5
Colour Temperature	Configurable 1800-3000K
CRI	>92
Operating Voltage	36-72V (IPM Only)
Light Output	490 Lumens
Base Options	E14, E27, B15d, B22
Nominal Power	4.2W
Ingress Protection	IP20

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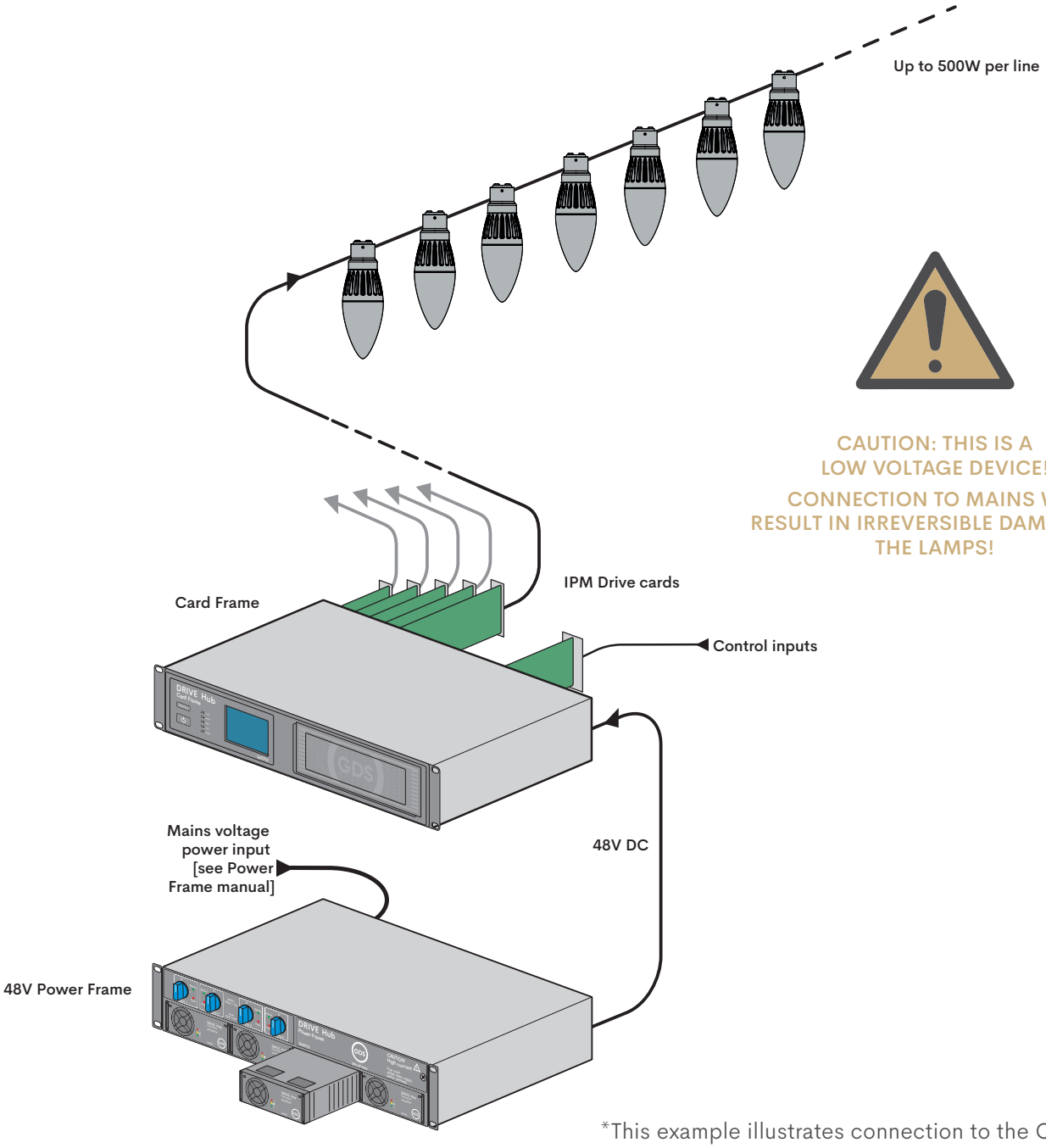
Connection Data

The GDS Lamp should only be connected to the DriveHub Card Frame, Mini Pack or Micro Pack system, via IPM Drive Cards. Under **no circumstances** should they be connected to an ordinary mains voltage system.

These are low-voltage devices and connection to mains voltage will result in **irreversible damage** to the fixtures.

The GDS IPM circuit should be connected as follows:

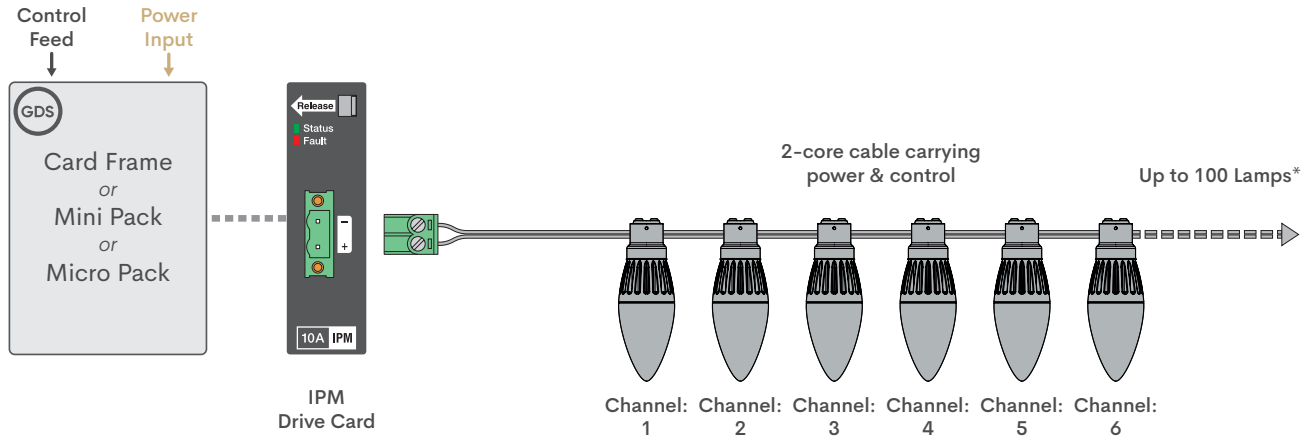


*This example illustrates connection to the Card Frame and Power Frame via IPM Drive Cards. The GDS Lamp is also compatible with the Mini Pack and Micro Pack systems when used with IPM Drive Cards.

Power Connection

The GDS Lamp uses the proprietary protocol, known as IPM. This system enables DC power and control data to be distributed over a two-core cable to multiple lamps on a single circuit, as shown in the connection diagram below. Each circuit supports a theoretical maximum load of up to 500 W; actual limits will vary depending on factors such as cable length, cable type, and installation conditions.

The system provides six independent control channels (groups), defined by the IPM drive card, allowing fixtures to be addressed and controlled in groups, via the Drive Hub system.



subject to installation-dependent limitations

Personalities

The lamp can be configured with five operating personalities, selectable via the web or touchscreen interface:

Fade-to-Warm
As the lamp is dimmed, the output progressively shifts to a warmer colour temperature, closely replicating the behaviour of tungsten lamps. This mode also allows selection of the primary colour temperature (1800K–3000K).

Fixed CCT
The lamp operates at a single, user-selectable colour temperature between 1800K and 3000K, with intensity control on a single channel.

2-Channel Tunable
The lamp is controlled via two channels: one dedicated to intensity and the other to colour temperature, allowing independent adjustment of these parameters.

Candle Flicker
The lamp produces a randomised flicker effect designed to imitate the natural behaviour of a candle flame.

2-Channel Candle Flicker
This mode provides two control channels: one for intensity and one for volatility, allowing the amount of flicker variation to be adjusted.

IPM Features

In addition to personalities, the GDS Lamps inherit the standard IPM protocol features:

Groups

During installation, each lamp can be assigned to a control group. Groups are independently controllable, with the protocol supporting up to six control channels per circuit. Each group can be allocated a unique DMX address for control.

When using any of the 2-channel personalities, the number of available channels is reduced, as a maximum of six control channels per circuit is supported.

IPM Speed

Each IPM Drive Card (and all connected lamps) can be configured to use one of three IPM speeds:

1. Legacy
2. Fast
3. Maximum

Maximum speed is recommended for all new installations, as it ensures correct group functionality. Legacy and Fast speeds should be used only in installations where existing IPM equipment is already operating at these speeds.

Custom Curves

Using the designated GDS Curve Tool, a custom dimming curve can be created to meet specific application requirements. When the custom curve option is selected in the dimming parameters, the curve can be uploaded to all connected lamps.

Emergency Mode

If the system has a dedicated 48v emergency power system, the lamps can be configured to operate in Emergency Mode whereby on the loss of power to the Drive Hub system, the lamps will default to an intensity level set by the user (0–255).

Eco Mode

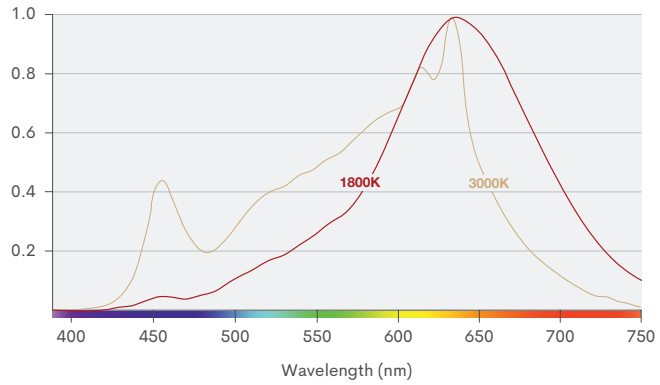
In this mode, any connected fixture that has remained at 0% intensity for more than 10 seconds will enter low power (standby) mode until dimming data above 0% is received. The mode can be disabled when instant reaction speeds are required.

Dimming Parameters

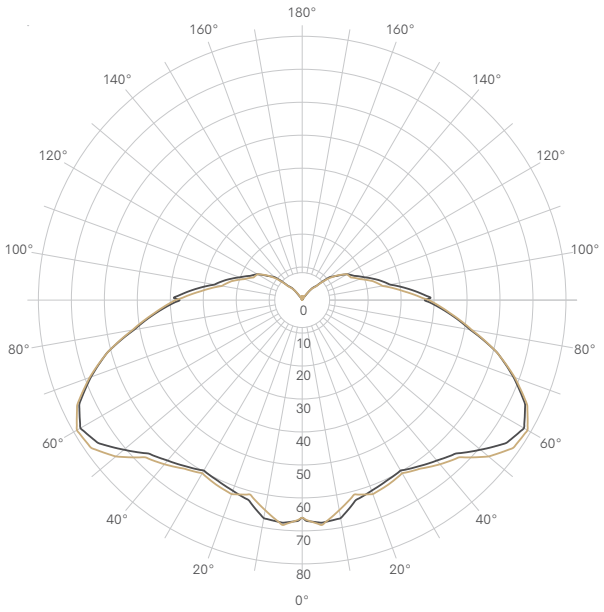
Each IPM Drive Card includes a set of configurable dimming parameters that apply to all fixtures on the connected circuit.

Dimming curve:	Incandescent, Linear, Square Law, Custom
PWM frequency:	255Hz, 300Hz, 510Hz, 600Hz, 1020Hz, 1200Hz, 2040Hz, 4080Hz, 19.2kHz
Response Time (mS):	0, 50, 100, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000
Minimum output level:	0 to 255
Maximum output level:	0 to 255

Spectral Distribution

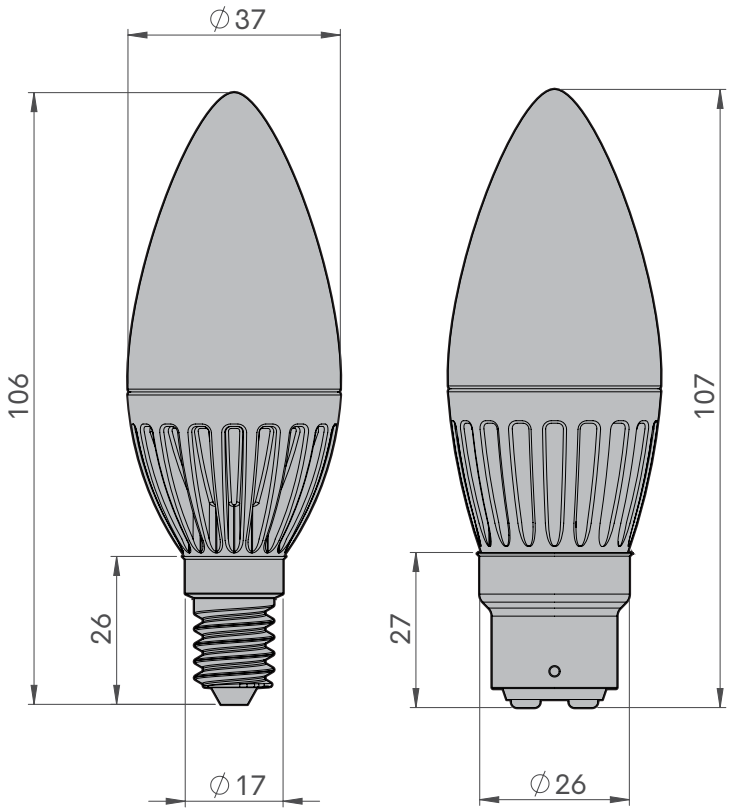


Light Distribution



Lamp=489.9 lm (100%)
Max=78.9 cd
Power=4 W
Color=3005 K

Dimensions



E14/B15d **E27/B22**

Specifications are subject to change without notice.

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