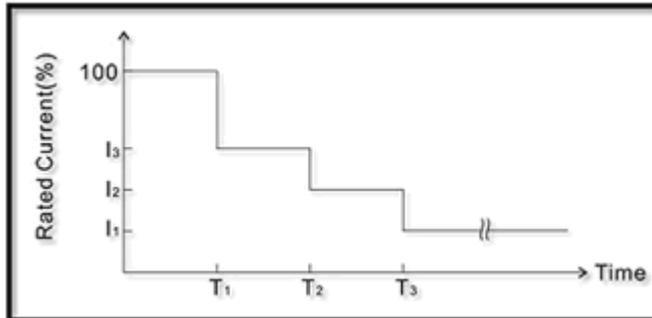


Optional timer dimming function included in ELG/HLG/HVG families

To achieve better energy-saving on LED lighting systems, more and more designers are including a dimming function into the lighting system, to reduce the brightness during low usage periods and save electricity. After launching the HLG range of LED power supplies equipped with dimming function (3-in-1 dimming using 1-10V, PWM or potentiometer), **MEANWELL** has developed the "4-stage timer dimming" function for some specific lighting applications. This is now available with the HLG-xxH-C (constant current) range and with some HVG and HVG-C units with 415VAC input operation. The ELG range now provides the option of more dimming stages and a USB programming device SDP-001.



Optional timer dimming control

The timer dimming model (D-Type option) is modified from the LED power supply with 3 in 1 dimming function by directly replacing the 3 in 1 dimming PCB with the timer dimming control board.

Controlled by an MCU with pre-set timing program, this mini control board can implement the timer dimming function by adjusting the output current of the LED power drivers at pre-set time intervals after switch on.

According to customer's requirements, Meanwell can adjust the brightness level at three different time intervals (four different brightness levels) and the brightness in each period (see graph above). However, since different customers might have different dimming requirements, this model is not standard; therefore the timer dimming mechanism is customized in firmware to the customer's requirements.



The timer dimming function is widely used in lighting applications such as street lighting, bicycle and walking tracks, park lighting and car park lighting...etc. After powering on the LED lighting system, the **D** model will automatically start the timer function, and change the output current (brightness of the lighting fixture) within the defined time period. This can therefore achieve electrical energy savings (and reduce annoyance to nearby residents) and extend the life of LED lighting.

Street lighting in the news...

www.theurbandevolver.com/led-street-lights-bright-idea-to-save-money-environment/

www.eastmidlandsbusinesslink.co.uk/mag/finance/mccann-lights-way-energy-efficiency-1-1m-highways-england-contract/

www.forbes.com/sites/justingerdes/2013/01/25/los-angeles-saves-millions-with-led-street-light-deployment/

www.telegraph.co.uk/news/9637929/Street-lights-turned-off-in-their-thousands-to-meet-carbon-emission-targets.html

www.dailymail.co.uk/debate/article-2240083/It-dim-turning-street-lights-bright-idea.html

www.thenorthernecho.co.uk/news/10104426.Councillors_back_dimming_street_lights_and_housing_transfer/

...reduce the brightness of 82,000 lights by a quarter between 10pm and midnight and by half between midnight and 5am. Council chiefs say the dimming will be hardly visible to motorists and pedestrians and some lights on the A167 have been dimmed by a quarter overnight for some years.

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