

For Immediate Release

## **TAIYO YUDEN Starts the Commercialization of Power Modules for LED Lighting**

*Power Modules that can Suppress Flickering and Handle Multiple Light Modulation Methods*



TOKYO, November 20, 2014 – TAIYO YUDEN CO., LTD. announced today the commercialization of two series of power modules for LED lighting: the 25W type TYS25WRS and the 150W type TYS150WGS. These power modules make use of TAIYO YUDEN's power supply circuit technology and allow the use of three light modulation methods (analog, PWM, and resistor). With the power conversion efficiency of at least 85% offered by the TYS25WRS and at least 92% offered by the TYS150WGS, these power modules also contribute to energy conservation. In addition, the TYS150WGS series conforms to the IP65/IP67 grades for water-proofing and dust protection and is equipped with 15kV lightning surge protection, which means it can be used in street lights without needing any modification.

Production of the TYS25WRS series will start at KOREA TAIYO YUDEN CO., LTD. in Changwon-si, Gyeongsangnam-do in November 2014, and the sample price is 3,000 yen per unit. Production of the TYS150WGS series is also scheduled to start before the end of 2014.

### **Technology Background**

Given the increasing awareness of energy conservation, the shift from conventional light fittings such as incandescent lamps and fluorescent lamps to LED lighting has progressed rapidly in recent years. However, flickering and a degraded performance due to poor conversion efficiency can be seen in LED lights that use inferior power modules.

In response to market needs for improved comfort and energy efficiency, TAIYO YUDEN has applied the LED power control technology that it has developed over many years through flat-screen televisions, and has started the commercialization of the TYS25WRS series and TYS150WGS series that suppress flickering in LED lights and help achieve higher power conversion efficiency.

TAIYO YUDEN sees the environment and energy markets as critical and important among the markets we serve and we are committed to offer solutions to address the demand from these markets.

■ Application  
LED lighting

■ Main characteristics

Part Number	P in	V in	V out	I out	Dimming	IP	Size (mm)	Safety Standard
TYS25WRS21	25W	100V 240V	21V	950mA	Analog PWM Resistor	IP2x	212x33.5x25	PSE *1
TYS25WRS30			30V	700mA				
TYS25WRS39			39V	510mA				
TYS150WGSA36	150W	100V 277V	36V	4.1A	Analog PWM Resistor	IP65 IP67	231.6x70x40.5	PSE UL CE KC
TYS150WGSA48			48V	3.2A				

\*1 Proposal submitted for acquisition of safety standard certification from countries other than Japan, such as UL and CE, for the TYS25WRS series.