

FLUORESCENT POWER CONTROLLER

FOR Fluorescent

PSJ Power Controller can control energy consumption and reduce demand charge. With the new lighting control equipment technology, N.C.W.I. , lighting can be controlled in a range of 100% to 1 % of luminous flux for fluorescent lamps



Example

Fluorescent Lamp	18W 36W
Quantity	1 Lamps
Month	12 Months
Working Day	30 Days
Period	12 Hours
Electricity Cost	3.3 THB/Unit

	FL 18W	FL 18W	FL 36W	FL 36W
Ballast Lost (W)	11	6 11	6	
Electricity Usages (kW)	0.029	0.024	0.047	0.042

Electricity Cost per Year (THB)

Power Usages (kW.Hr) 100%	413.42	342.14	670.03	598.75
Power Usages (kW.Hr) 80%	330.74	273.72	536.03	479.00
Power Usages (kW.Hr) 70%	289.40	239.50	469.02	419.13
Power Usages (kW.Hr) 60%	248.05	205.29	402.02	359.25
Power Usages (kW.Hr) 50%	206.71	171.07	335.02	299.38

Saving per year (THB)

-	-	-	-
82.68	68.43	134.01	119.75
124.03	102.64	201.01	179.63
165.37	136.86	268.01	239.50
206.71	171.07	335.02	299.38

Benefits

- Save electricity expense more than 50 %
- Easy to control the intensity of lighting
- Extend lamp lifetime up to 100%
- Reduce demand charge
- Reduce air-condition consumption
- Easy to install and apply to the old system
- Save global energy with sustainable way
- Support global warming trend

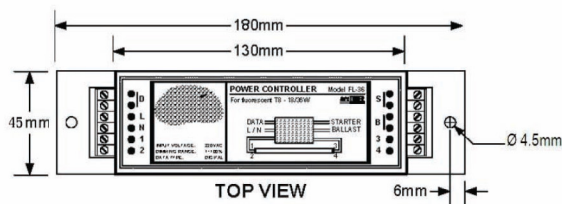
Application

- Government or Non-Government Department
- Interior Design
- Lighting Design
- Banking
- Industrial Segment and Factory
- Shop and Mall
- Hotel
- Hospital
- Office Building
- Warehouse
- Advertising Sign/Billboard

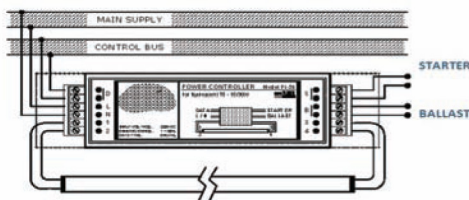
- 100% to 1% controlling for fluorescent
- Very low EMI & EMC
- Very low voltage harmonics distortion < 1.6%
- Operate with magnetic ballast
- More flexibility modes of control (analog and digital control)
- Rugged design compatible to solid state relay
- Up to 99% relative humidity
- Industrial Grade

Model	Description	Weight (kg.)
PSJFL-18/36	Controller for Fluorescent 18,36 Watts	0.4

Dimension



Wiring Diagram



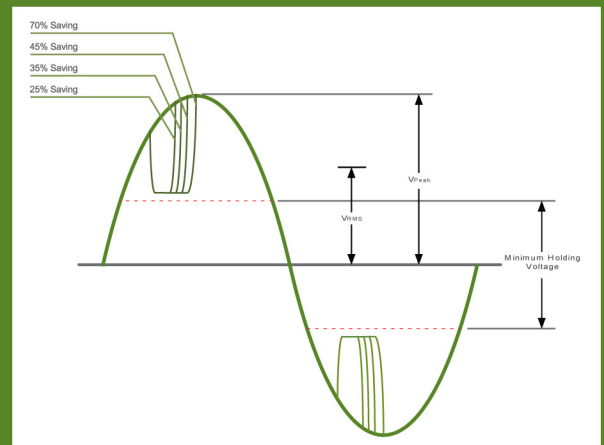
Specification

Controlling Range:	100% to 1% light output
Controlling Speed:	Instant Response 1% to 100% / 100% to 1% in less than 20 μs
Minimum Consumption:	4W
Mains Supply :	220VAC 50Hz Safety Tolerance ±10%
Control Input Types:	0-10VDC, 1-10VDC AC line after conventional phase-cutting dimmer Digital control signal
Control Input Protection:	Non-Polar Complete isolation up to 600V (with phase-cutting dimmer) Complete isolation up to 50V (with 0-10VDC control)
Ambient Temp:	0 to 85 °C
Humidity:	Up to 99% Relative Humidity
Size:	(D) = 36 mm (H)= 180 mm (W)= 45 mm

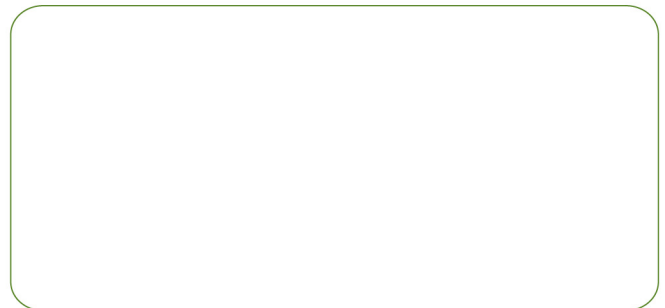
Information subject to change without notice

Non Critical Wave Intersection

N.C.W.I. Technique is specifically designed for gas-discharge lamps with magnetic ballast to be able to control power supply to the lamp in order to manage the energy more efficiently where full power-to-load is not required. Additionally, low insertion loss makes it more competitive to other technologies.



Contact



www.psjenergysave.com