

## DESCRIPTION OF CIRCUIT FUNCTION

NAME OF APPLICANT : Phoenix Industrial Co., Ltd.

NAME OF PRODUCT : SELF-BALLASTED LAMP

MODEL NO: PPS13/1

PPS20/1

PPS25/1

1. AC POWER SUPPLIED THROUGH BASE OF DEVICE IS RECTIFIED AND BOOSTED TO DC BY PASSING BOTH OF THE RECTIFYING CIRCUIT AND THE ELECTROLYTIC CONDENSER  
AT THIS TIME ,ALL OF THE HARMFUL NOISE INCLUDING HIGH FREQUENCY NOISE OCCURRED IN SWITCHING CIRCUIT IS ELIMINATED WHEN THIS RECTIFIED DC IS PASSED THROUGH LINE FILTER
2. THE TRANSISTOR HALF BRIDGE INVERTER GENERATES THE 40KHz-50KHz HIGH FREQUENCY VOLTAGE POWER BY SWITCHING OPERATION OF THE TRANSISTORS WITH THE RECTIFIED DC POWER IN RECTIFYING CIRCUIT,AND THIS GENERATED HIGH FREQUENCY VOLTAGE POWER LIGHTS THE FLUORESCENT LAMP.
- 3.AT THIS TIME, LAMP IS LIGHTED AS TWO STEPS WHICH IS MAIN POWER IS PASSED TO FILAMENT AFTER PREHEATING OF PTC IN ORDER TO EXTEND LAMP LIFE BY AVOIDING THE RAPIDLY SCATTERING OF EMISSION MATERIAL ON FILAMENT
- 4.WHEN SWITCHING OPERATION OF ELECTRONIC BALLAST IS MADE UP,ACTION OF THE DIAC STOPS AS DISCHARGING THE CONDENSATED POWER IN CONDENSOR BY BOTH OF THE DIODE AND THE TRANSISTOR. .

## USER'S GUIDE

THE TEXT OF THIS INSTRUCTIONS WILL BE PRINTED ON THE SURFACE OF THE INDIVIDUAL BOX AT THE TIME OF MASS PRODUCTION.

### 1.PRODUCT SPECIFICATION

- 1)COMMODITY : SELF – BALLASTED LAMP
- 2)MODEL NO :PPS20/1
- 3)CONSUMPTION POWER 20W
- 4)INPUT VOLTAGE : AC 120 V
- 5)FREQUENCY OF INPUT LINE : 60 Hz
- 6)LIFE : 10,000 Hrs

### 2.USER'S GUIDE

ELECTRONIC BALLAST

INSTANT ON, FLICKER-FREE AND LIGHT WEIGHT

RELIABLE OPERATING TEMPERATURE RANGE : -10 TO 40

#### 1) CAUTION

DO NOT WITH DIMMING CIRCUITS, ELECTRONIC TIMERS OR PHOTOCELL DEVICE.

DO NOT USE IN TOTALLY ENCLOSED FIXTURES, WHERE EXPOSED TO WEATHER, EMERGENCY EXIT FIXTURES OR LIGHTS.

NEVER DISASSEMBLE OR MODIFY THE LAMP.

USE ONLY 120V 60 Hz CIRCUITS.

RISK OF ELECTRIC SHOCK – USE IN DRY LOCATIONS ONLY.

DO NOT USE MORE THEN 25 LAMPS PER 20 Amp. BRANCH CIRCUIT

INSTALL AND REMOVE LAMP FROM FIXTURE BY GRASPING THE PLASTIC BODY.

2)NOTE

THIS PRODUCT MAY CAUSE RADIO INTERFERENCE WITH  
RADIOS, CORDLESS PHONES OR REMOTE CONTROL DEVICE IF  
INTERFERENCE OCCURS, RELOCATE THIS PRODUCT  
AWAY FROM THE DEVICE OR REMOVE THIS PRODUCT OUT OF  
THE LINE OF SIGHT WITH THE REMOTE CONTROL RECEIVER

DO NOT TOUCH THE LAMP AS SOON AS TURN OFF BECAUSE  
IT IS VERY HOT.