EXAMPLE OPERATIONAL DESCRIPTION – not for duplication

1. Overview

This equipment operates as a low voltage power supply intended to supply power to landscape lighting fixtures. The power supply has an on-board control board which allows for individual control of the output taps, output current monitoring of each tap, build-in timer functions to automatically schedule the taps, output diagnostics and fault protection, and Z-Wave wireless control & monitoring. The equipment is a transceiver operating at 908.42/908.40MHz. The wireless control enables synchronization of time/date/location, ON/OFF control of output taps, diagnostics & monitoring of the power supply between other wireless devices which follow the Z-Wave protocol. The equipment is powered via 120Vac line voltage, and the user is able to manually setup and control the unit via a keypad and an LCD screen which has a graphic user interface (GUI).

2. Operational Details

The control board of the power supply has an integrated Z-Wave radio frequency (RF) wireless module which enables wireless control and monitoring of the power supply unit. The antenna for the wireless module is an integral monopole PCB antenna. The control board is power via 120Vac line voltage. The wireless module is a transceiver and is able to send basic Z-Wave commands when prompted.

2.1 Regulation reference

FCC CFR47 part 15

2.2 Nominal transmit frequency

908.42/908.40MHz
Maximum Continuous Duty Cycle of 100%
Rated output power of -22dBm to -2.0dBm

2.3 Modulation scheme and power averaging factor

Modulation scheme: FSK
Data Rate(s): 9.6kbps/40kbps
Number of Channels: 1
Occupied Bandwidth: Single Carrier
Maximum Duty 100%

2.4 Maximum RF output power:

-22dBm to -2.0dBm