

PFX-5581

SPS Series Inverters

Instruction for Self-Diagnostic Testing (SDT)

INSTRUCTIONS FOR SELF-DIAGNOSTIC TESTING (SDT)

Once the unit is properly installed in accordance with the installation instructions and AC power is supplied to the unit, the dual color (SDT STATUS) LED indicator will illuminate, followed by the amber (INV ON) LED indicator. Unit will switch into a load calibrating mode for 5-10 seconds to record the connected load. Lampheads will turn ON during this step. Once done, the LED indicator will show a RED/GREEN flashing status. This indicates that the unit is in Hi-charge mode. A steady GREEN LED indicates normal service; A blinking GREEN/RED LED indicates the battery is charging; A BLINKING RED LED (in different combinations) indicates a service alert. Refer to the SERVICE INDICATION chart below for details. During loss of normal utility power the dual color LED will not be illuminated. The AMBER (INV ON) LED indicator will be illuminated only during inverter operation initiated by the loss of utility power or during any manual or automatic self-test.

During a manually-initiated test OR monthly/annual self-diagnostic test, if the calibrated load is not detected, then the LED indicator will flash FOUR times, indicating a load failure error. This error code can be reset by pressing and holding the test switch for at least (6) seconds, allowing the unit to calibrate the load again.

SELF-DIAGNOSTIC SERVICE

The self-diagnostic function is factory preset and performs the following:

- a) Monitoring of battery, battery charger and connected loads.
- b) Self-testing and a (30) second battery discharge once every (30) days, after normal utility power has been supplied for a minimum of (96) hours.
- c) Self-testing and a (30) minute battery discharge once every (180) days, after normal utility power has been supplied for a minimum of (96) hours.
- d) Self-testing and a (90) minute battery discharge once every (365) days, after normal utility power has been supplied for a minimum of (96) hours.

SERVICE INDICATION

LED Indicator	Status
GREEN steady	Normal service
RED/GREEN blinking	High Charge enabled
GREEN blinking	Test Mode enabled
One blink RED/pause	Battery Charger fault
Two blinks RED/pause	Battery fault
Four blinks RED/pause	Lamp/Load fault

MANUAL TESTING

The unit also provides for manual testing by pushing the TEST button in a specific pattern:

Action	Reaction and LED Indication
Push test switch Once (within (2) seconds)	(30) second test: One blink GREEN/pause
Push test switch Twice (within (2) seconds)	(30) minute test: Two blinks GREEN/pause
Push test switch Three times (within (2) seconds)	(90) minute test: Three blinks GREEN/pause
Push test switch and hold for (3) seconds	Cancel test
Push test switch and hold for (6) seconds	System reset

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