

Technical Bulletin

Subject: “Standard Mode“ and “Ambulance Mode” of inverter operation

Models affected: IQC12-2600, IQC12-3600, IQC24-3600

PC Board w/option: PCB Assembly P/N D07823-F (rev. level F and higher)

Standard Mode: In Standard Mode the system operates like a UPS (Uninterruptible Power Supply). Upon loss of shore power, the inverter automatically powers the AC load without interruption.

Ambulance Mode: In Ambulance Mode, upon loss of shore power, the inverter remains OFF until the inverter ON/OFF Switch or remote switch is pressed to the Start position.

Intended for ambulance and fire truck applications, in Ambulance Mode the system does not operate like a UPS. This is because it is common in these applications for the shore power cord to accidentally become unplugged. If the inverter were operated in Standard Mode and if the unplugged shore power cord went unnoticed this could result in a dead inverter battery only to be discovered when the vehicle is called into service.

How to select Ambulance Mode: Selection is accomplished by relocating the two-pin jumper found on terminal J3 on the LED display circuit board. The factory position of the jumper is over only one pin for Standard Mode. See Figure 1 (below).

Turn the inverter OFF. Remove the front cover of the inverter to gain access to the LED circuit board located at the front of the inverter. Terminal J3 is a two-pin terminal identified on the circuit board and located approximately 1” above the yellow bulk charge indicator light. The factory position of the jumper is outlined on the board over only one pin for Standard Mode.

To select Ambulance Mode remove the jumper from the factory position and reinstall the jumper over both pins of terminal J3.

To reselect Standard Mode install the jumper over only one pin of terminal J3.

Figure 1 Standard and Ambulance Modes

