

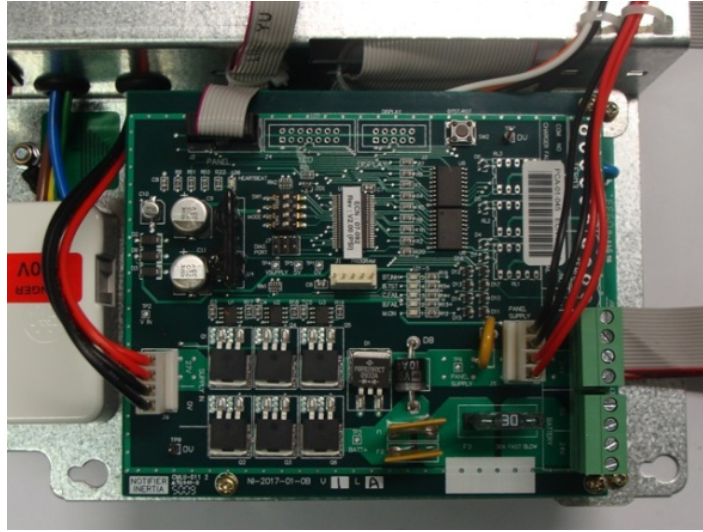
NOTIFIER TECH TIP

AFP2800/IFS2600/NPS

PSI Card

“Battery Disconnect”

v1.0



This information is applicable to the AFP2800, IFS2600 panels and the NPS series of standalone/supplies that are fitted with the PSI (Power Supply Interface) board as shown above.

The PSI board performs all AC and battery power monitoring, weekly load testing and changeover from AC based supply to batteries. If the AC mains based supply fails, the PSI board will automatically maintain the output from the board from battery power.

The PSI board will continue to monitor the battery voltage whilst the panel and/or other equipment is being maintained solely from batteries.

NORMAL OPERATION:

If the battery voltage drops to around 20V DC, the PSI card will automatically disconnect the OUTPUT from the PSI card and the panel and/or attached equipment will power down. This functionality occurs to limit the possibility of damage to the batteries if they are discharged to a low voltage.

HOWEVER:

In this situation, the PSI board itself remains connected to the batteries, with the status LED's remaining active and the card functional. Although the current drawn by the PSI board and LED's will be low, it will still be sourcing power from the batteries and if left for an extended period, the batteries **WILL** drop to a low voltage and damage may occur.

If AC Mains supply is to be knowingly NOT available to equipment that utilises the PSI card, for a period likely to exceed the battery capability, consider disconnecting the batteries or making alternative arrangements to limit the possibility of damage to the batteries.