

ABSTRACT

POWER DISTRIBUTION FOR END-POINT FAILURE DETECTION AND
RECOVERY FOR A TRANSPORT REFRIGERATION SYSTEM

A transport refrigeration system including a method for fault tolerant power management. The system includes a first sensor identified as required for operation of the transport refrigeration system and a second sensor operable as a backup for the first sensor. The system also includes a first power supply operably connected to the first sensor and configured to operate the first sensor and a second power supply operably connected to the second sensor and configured to operate the second sensor. The system further includes a controller operably connected to at least the first power supply as well as the first sensor and the second power supply as well as the second sensor, the controller configured to monitor at least the first power supply and the second power supply, if a fault is detected in the first power supply, operate the transport refrigeration system from the second sensor.

[Figure 2]