CLAIMS

1. A heat-detection system, comprising:

at least one heat sensor mounted externally to a local power-box (LPB), the heat sensor having an area-of-detection to detect heat emitted from at least one face of the LPB at one or more locations; and

a high-absorptance, infrared-collector (HAIC) formed within the LPB configured to collect excessive heat generated by a component within the LPB, the excessive heat being correlated to a pre-determined temperature level, a temperature of the collected excessive heat to be measured by the at least one heat sensor, each of the at least one heat sensor and the HAIC being coupled to a control module.

2. The heat-detection system of claim 1, wherein the HAIC comprises a high-absorptance material to collect radiant energy.

3. The heat-detection system of claim 1, wherein the HAIC is formed on an interior portion of an external wall of the LPB.

4. The heat-detection system of claim 1, wherein the at least one heat sensor comprises an infrared (IR) sensor.