

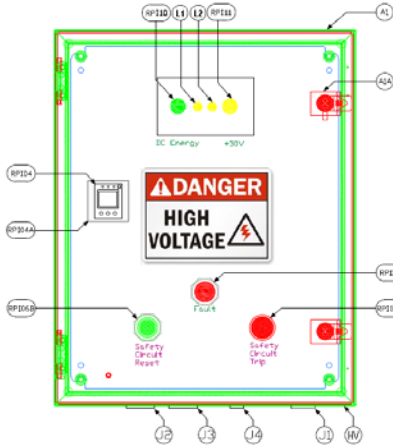
Raw Power Interface

LPRDS-ETS 2009

Functionality

- Disconnect the system from photovoltaic array
- Provide sensor data for PV array
- Ground fault detection

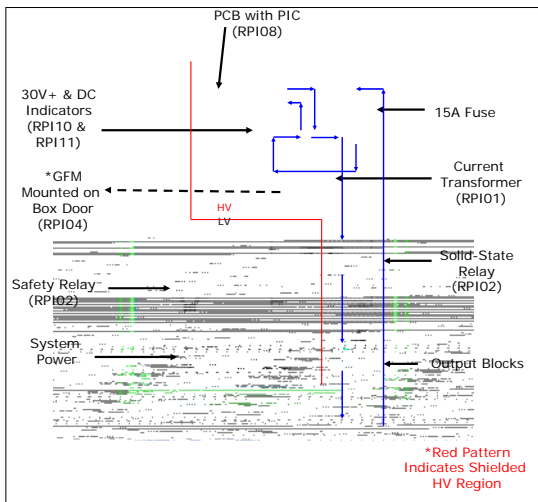
Exterior Layout



- A1 Enclosure
- A1A Thumb turn handle with key lock
- RPI04 Ground fault monitor - Triggers the safety relay in the event of a ground fault. Alarm 2 (A12) goes off when the ground current exceeds the tripping point. Alarm 1 (A11) goes off at half this level.
- RPI05A Mounting frame for the ground fault monitor.
- RPI06B Safety circuit reset button - Triggers the safety circuit.
- RPI06B Safety circuit reset button - Resets the safety circuit.
- RPI10 System power indicator - Lights when the RPI relay is closed and power is being provided to the system.
- RPI11 30V indicator - Lights when 30V or more is being supplied by the PV array.
- RPI12 Fault indicator light - Lights when there is a fault and the safety relay is tripped.
- L1 PCB Power light - Lit when the PCB has 5V power supplied.
- L2 PIC light - Blinks to show PIC is programmed and running.
- J1 High voltage output receptacle
- J2 Supply voltage receptacle
- J3 Safety receptacle
- J4 RJ45 receptacle
- HV High voltage input



Interior Layout



System Diagram

