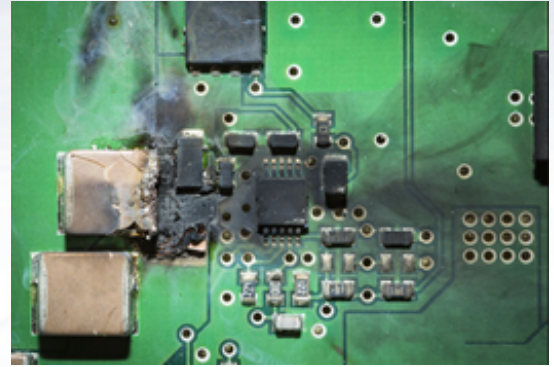


EP2050EE - High performance filter and SPD for your Solar System

The solar panels usually come with a 20-year warranty, however, the inverters only last a maximum of 10 years. A solar inverter, nonlinear device, inverts supplied DC from PV cells to AC voltage that feeds the house and/or grid. The inverter uses PWM (Pulse Width Modulation) technology to chop the DC at frequent intervals to generate the AC signal. During this process, the solar inverter generates “switching noise”. The same switching noise can also be generated by other nonlinear loads in the home such as the HVAC system, refrigerators, motors, TV, and EV charging stations.

Untreated noise freely propagates in the electrical system from load to load, including the inverters - causing potential harm to the inverter; resulting in ***erratic behavior, decreased longevity, lower efficiency, etc.***



The damaging effects of noise may not be seen instantaneously, but it's a slow process altering the capacitive reactance of the unit. As the capacitive reactance decreases the inverter is prone to attract more transients, and thus its premature damage. On average, a typical residential solar installation requires upwards of \$3000 for an inverter repair and replacement and it is extremely important to protect your investment with suitable noise filters.



Environmental Potentials manufactures reliable SPD and low pass filters that protect the inverter and the home electrical system from surges, transients, and switching noise. The filters extend the life of inverters by properly absorbing the transient noise in the system. All our filters are **UL listed, CSA EMI filters**, and are **Made in the USA**.



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