

Abstract Submitted
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Overview of a new compact and portable x -pinch radiation source generator (200-ka, 200-ns) for physics and industry applications. ROMAN SHAPOVALOV, RICK SPIELMAN, Idaho State Univ — The x -pinch radiation source generator has many proven applications in plasma backlighting, phase-contrast imaging of biological species, and more. We will briefly overview our new compact and portable x -pinch driver recently designed and tested at the Idaho Accelerator Center [1]. The up-to-date x -pinch radiation data will be presented and discussed. Our x -pinch driver is very easy to operate, require no or minimum maintenance, and can be easily relocated where a compact and portable x -pinch radiation source is wanted. [1]. R. Shapovalov and R. Spielman, “Shirt-Circuit test data of a new 2-LTD-Brick x -pinch driver at the Idaho Accelerator Center,” in Proc. of Pulsed Power Conference (submitted), Austin, TX, May 2015.

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