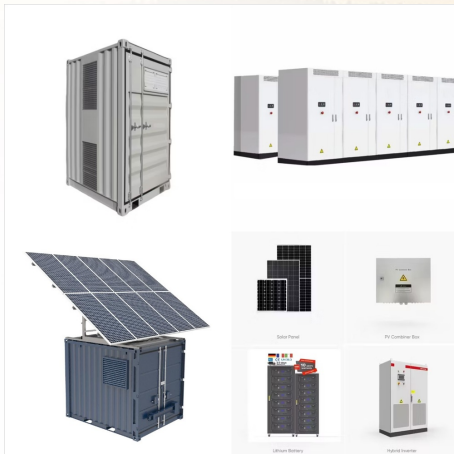


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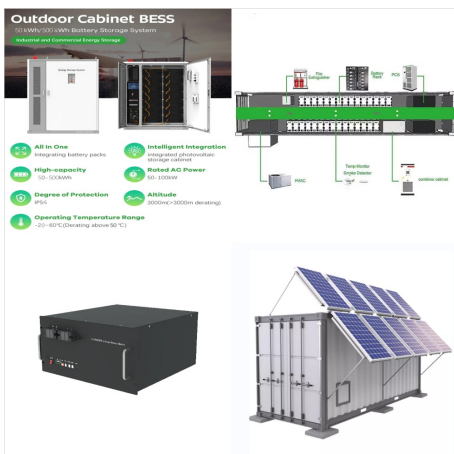


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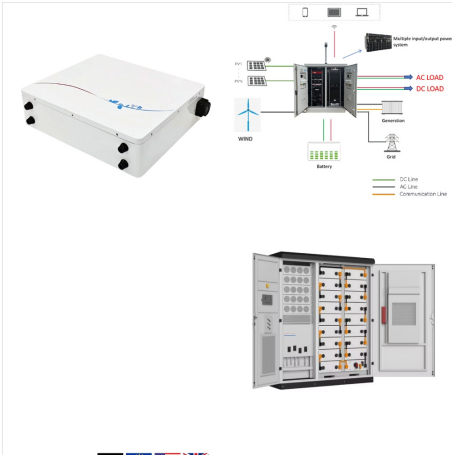


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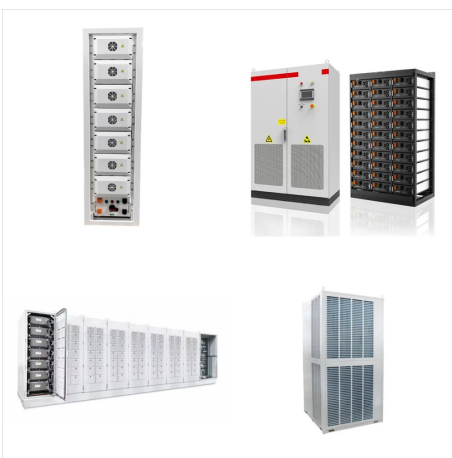
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sinusoidal wave patterns of voltage, current and power are shown for a resistance load. As the figure shows, the phase between the voltage and current is the same. o This means that the power factor of this system is unity (power factor is the cosine of the angle between voltage and current). At unity power factor, the power is zero twice each



phase AC motors. Therefore, in the 1890's both the technology and the need for AC power transmission systems came together and created a swift expansion of AC power networks. In the 1920's there was rapid growth in radio technology, and the vacuum tubes used in those radios required rechargeable "B" batteries to operate.



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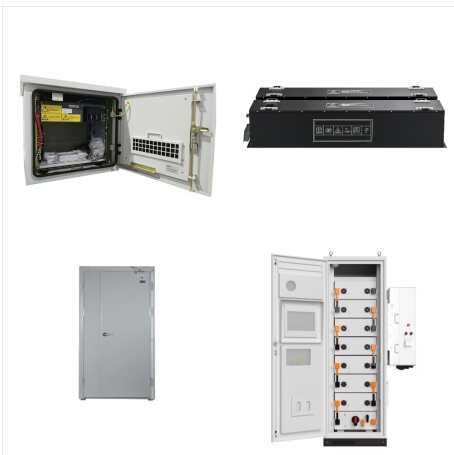
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CONTRIBUTORS Amick, Charles L. Lighting Consultant.(SECTION 20: LIGHTING DESIGN)Chowdhury, Badrul H.Associate Professor, Electrical and Computer Engineering, University of Missouri-Rolla. (SECTION 11: LOAD-FLOW ANALYSIS IN POWER SYSTEMS)Galli, Anthony W.Project Engineer, Newport News Shipbuilding.(SECTION 1: BASIC ???



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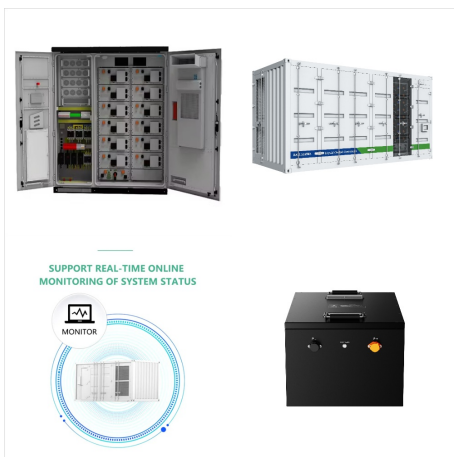
Summary: Proper operation of sensitive equipment requires attention to transient disturbances, grounding practices, and standby power needs. This second edition of the successful AC Power Systems Handbook focuses on engineering technology essential to the design, maintenance, and operation of alternating current power supplies.



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