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BATTERY UNITS FOR SELF-CONTAINED SUPPLY SYSTEMS IN LIGHTING INSTALLATIONS

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Abstract

The article presents findings for electrical parameters of supercapacitors, and techniques for experimental definition of capacitance values and internal resistance of supercapacitors. Research on self-discharge and influence of delay within electric field upon self-discharge constant of supercapacitors has been conducted. Monitoring system for supercapacitors and Li-ion battery charge/discharge based on the verifier with pulse-width modulation and voltage balancing system which is employed on a separate battery element has been proposed. Refer ences 19, figures 8, tables 2.

Key words: supercapacitor, battery, internal resistance, self-discharge, self-discharge constant, charge/discharge verifier.

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