Digital control in power electronics

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Here we present a variable power supply with digital control that is simple and easy to construct. The circuit is built around an adjustable 3-terminal positive-voltage regulator IC LM317, CMOS decade counter IC CD4017, timer IC NE555 and 3-terminal fixed negative-voltage regulator LM7912. The AC mains supply is stepped down by transformer X1 to deliver a secondary output of 12V-0-12V AC, 1A. The output of the transformer is rectified by a full-wave rectifier comprising diodes D1 through D4.

By using a properly calibrated digital multimeter you can easily adjust the presets to obtain 1.5V to 12V. A fixed, negative 12V DC can be obtained by using fixed, negative-voltage regulator IC LM7912 (IC3), temperature controller dc, 10a digital controller you, output electronic controller, temperature control with ssr relay, solar power controller with ldo display, electric board speed control, hobby electronics controller, china ldo controller. Quality service and professional assistance is provided when you shop with AliExpress, so don't wait to take advantage of our prices on these and other items! Online Wholesale digital control in power electronics Power electronics is the application of solid-state electronics to the control and conversion of electric power. The first high power electronic devices were mercury-arc valves. In modern systems, the conversion is performed with semiconductor switching devices such as diodes, thyristors, and power transistors such as the power MOSFET and IGBT. In contrast to electronic systems concerned with transmission and processing of signals and data, in power electronics substantial amounts of electrical energy