

SWITCHING POWER SUPPLY USING IN DEVICE HAVING HIGH PEAK CURRENT CHARACTERISTIC

5

ABSTRACT

A switching power supply is provided and connected between external voltage source and a device having high peak current characteristic, the switching power supply comprises boost converter, control circuit and energy storing element. An input end of boost converter is connected to external voltage source, and output end of boost converter is electrically
10 connected to the device. A control circuit is connected to boost converter in parallel. A first predetermined voltage value and a predetermined current value is set in control circuit. When output current of external voltage source is larger than predetermined current value or output voltage of external voltage source is lower than first predetermined voltage value, output voltage of boost converter is reduced to be lower than the voltage of energy storing
15 element by control circuit.

(Fig.1A)