



Voltage Positioning Power Controller

Tech ID: 10-0010

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Status:

Seeking R&D and/or
licensing partner

Patent Pending

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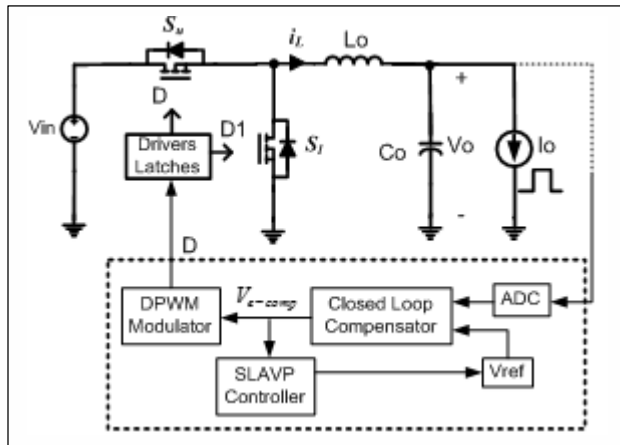
Center for Materials for
Information Technologies

Over 100 academic
publications

4 Patent Applications

Sensorless Adaptive Voltage Positioning Power Controller (SLAVP)

- SLAVP controller uses D or V_e value in a control law to vary the reference voltage of the power converter.
- Reduces the need for current sensing and a high-resolution, high-speed Analog-to-Digital converter
- Due to lower costs, this will allow for use in other applications and not just high-end applications (i.e., microprocessors) like current AVP controls



Digital Controller with SLAVP

Advantages

- Reduced output voltage deviation
- Better power regulation
- Reduced output capacitance
- Smaller size

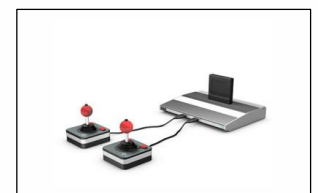
Applications



Computer
Manufacturers



Custom
Microprocessors



Video Game
Systems

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