

Caiman

Digital Power Platform

Digital power control means controlling the switch mode power supply with a high performance microcontroller.

Digitalize Your power supply with Caiman platform.



What is it

Caiman is a fully digital 200W AC/DC platform for power supply. It is ideal for LED applications, but can also easily be customized for other environments e.g. telecommunication.

Caiman Digital Power Platform can monitor surrounding conditions and adapt its operating parameters in real time for best performance.

Caiman Digital Power Platform provides customizable communications and intelligent monitoring features for various control systems.

Where's the Benefit

Caiman Digital Power Platform offers several benefits including easy customization, energy efficiency optimization and material cost reduction via functional integration.

All control functions such as loop compensation, switch controls and protection functions are implemented in software which enables easy customization with minimal hardware modifications.

Furthermore, an advanced compensator algorithm guarantees an extremely low voltage deviation and short settling time in load change situations.

More information:

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www.enics.com

Technical Data

Technical Details

- Dimensions (l x d x h)
37x91x164mm
(1.46x3.58x6.46in)
- Operating temperature
-40...+80°C (-40...176°F)
- Input voltage range 180-264 VAC,
50Hz
- Inrush current peak 2A
- Max. output power 200W
- Output voltage range 80-250 VDC
- Output current range 70-1000mA
- Ripple current 10%
- Output current settling tolerance
±5%
- Auxiliary output voltage 3.3V max.
500mA
- IP66

Energy Efficiency

- Efficiency 94%
- No load input power <0.2W
- Power factor 0.98

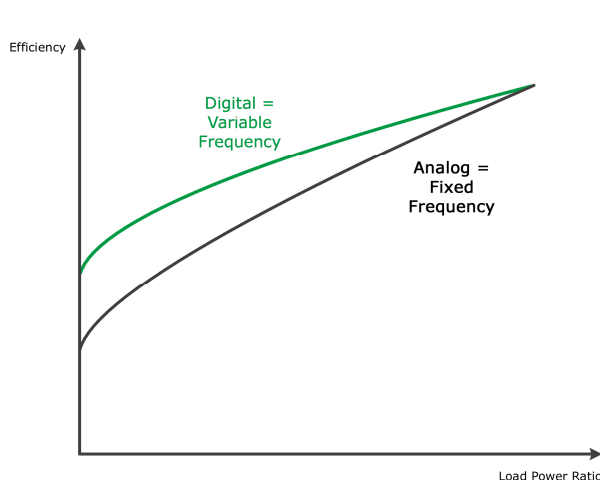
Protection

- Over temperature
- Output short circuit
- Output under/over voltage
- Input under voltage

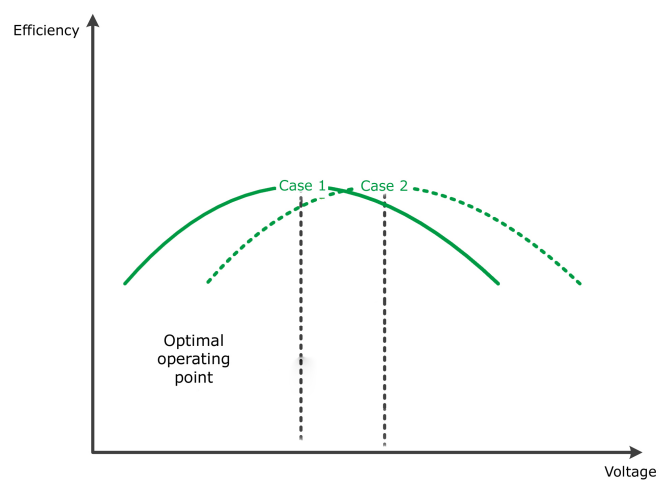
SW Customization

- Functionality examples
 - Energy measurement
 - Logging
 - Self-monitoring
- Wired or wireless interface (e.g.
DALI)
- Constant current / constant
voltage
- Limit parameterization of
 - Current
 - Voltage
 - Temperature

Energy Efficiency



Optimized switching frequency



Optimized voltage levels

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