

BMP MODELS

Preliminary

Dual Output 5V and 3.3V, 2" x 3" 38 Watt, DC/DC Converters

For your moderate-power mixed-logic designs, DATEL's new BMP-5/5-3.3/4-D24 (18-36V input) and BMP-5/5-3.3/4-D48 (36-75V input) are fully isolated DC/DC converters providing both 5V and 3.3V outputs. Housed in DATEL's standard 2" x 3" x 0.5" metal packages, the new BMP duals can simultaneously source up to 5 Amps from their 5V outputs and up to 4 Amps from their 3.3V outputs. Both outputs are fully isolated (1500Vdc) and independently line ($\pm 1.0\%$) and load ($\pm 1.0\%$) regulated.

Both models feature input pi filters, input undervoltage and overvoltage shutdown, input reverse-polarity protection, output overvoltage protection, output current limiting, and thermal shutdown. Each has an on/off control function and a trim pin for the 5V output.

BMP Model DC/DC's deliver low noise (50mVp-p and 35mVp-p), high efficiency (82%) and are fully specified for -40 to $+100^{\circ}\text{C}$ operation. Their corrosion-resistant metal cases have non-conductive baseplates and threaded inserts for easy heat-sink attachment and/or pcb mounting. These devices satisfy IEC950, UL1950 and EN60950 safety requirements for BASIC insulation. CE marking is available for "D48" models.

Contact DATEL for availability.

Features

- Independent 5V @ 5A and 3.3V @ 4A Outputs
- Each output fully regulated
- 38 Watts total output power
- Standard 2" x 3" package
- UL1950 and EN60950 safety approvals (BASIC insulation)
- Fully isolated, 1500Vdc guaranteed
- 18-36V or 36-75V input ranges
- CE mark available (75V-input models)
- Your trim and on/off control
- Fully I/O protected
- Thermal shutdown

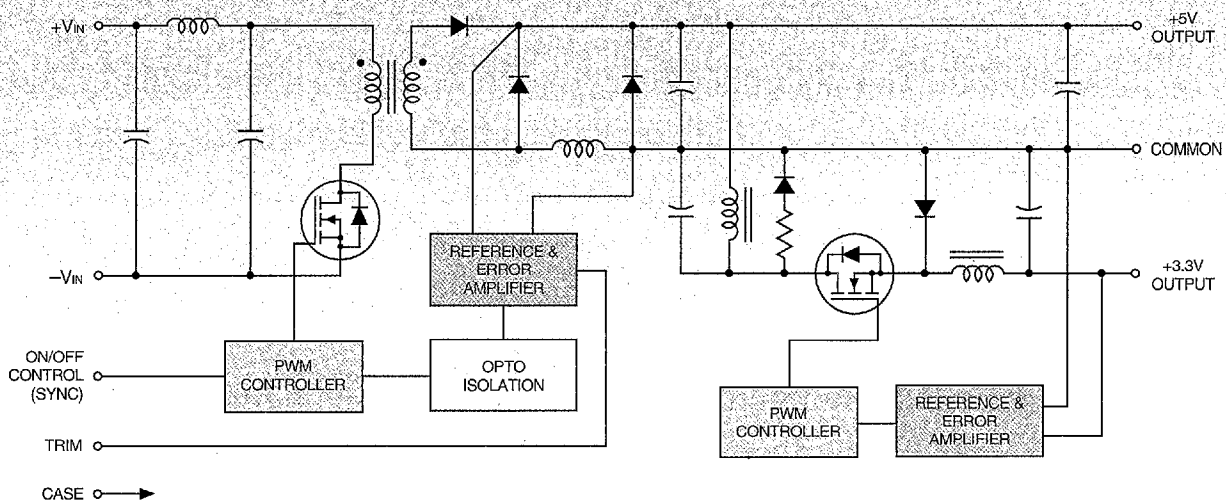


Figure 1. Simplified Schematic