

Control Pin Operations

Sync Input

Pin 4 is the Sync Input. The power hybrid operates at approximately 180 kHz and may be synchronized to frequencies from 190 to 210 kHz. The sync input pulse must meet the following levels as shown in the diagram. The sync input should sit at nominal 5 VDC and transition to ground level at a 10% \pm 1% duty cycle. It should be noted that the internal oscillator runs at twice the switching frequency, so a 400 kHz sync is needed for 200 kHz operation. On special order, a sync input at 200 kHz may be obtained. Other frequencies are also available on special order. Contact MDI's Sales and Marketing Department for other sync frequencies.

Synchronizing the power conversion units within an extremely sensitive system ensures that any noise generation is coincident with the system clock.

The "sync pin" must be left open if unused.

