Inhibit Option (INH)

The inhibit option is a factory fitted board that can be specified for most output modules. It enables the individual module output voltage to be shutdown by application of an inhibit signal. The option also provides a module good output signal that indicates when the module output is within 10% of the set voltage level.

External View

![Option connector diagram](image)

Specifications - all voltages are with respect to -ve output (pin 5 & 6) unless otherwise stated.

**Inhibit - Pin 3**

- Max voltage for output inhibited: 0.8V max
- Sink current, pin 3 = 0V: 0.15mA typ
- Module output voltage when inhibited: 0.5V max (1.0V max for F modules)
- Min voltage for output enabled: 2.0V min
- Open circuit voltage: 5V typ
- Hysteresis: 0.4V typ
- Input filter time constant: 0.33mS typ
- Response time inhibit to o/p fall: 0.5mS typ (see waveforms)
- Response time inhibit to o/p rise: 0.7mS typ (see waveforms)

**Module Good = Pin 2**

- Module good signal type: Open collector output
- Max external voltage: 50V max
- Max sink current: 50mA for V<0.8Volts, 100mA for V<1.5Volts
- Output voltage high threshold: 110~115% of set voltage (measured at sense terminals)
- Output voltage low threshold: 85~90% of set voltage (measured at sense terminals)

**Module Good set-up procedure**

The module good signal is factory pre-set to suit the specified output voltage. If there is a requirement to change this setting, the procedure is as follows:-

**Step 1**
Remove the module good link from the option board (refer to drawing above).

**Step 2**
Wire a LED to the module good signal - see typical circuit connection below.

**Step 3**
Set the module to the required output voltage by adjusting the module voltage adjustment potentiometer.

**Step 4**
Set the module good threshold by turning the module good adjustment potentiometer (refer to drawing above) fully anticlockwise and then adjusting clockwise until the LED turns on. Continue adjusting clockwise until the LED just turns off - the adjustment is now set.

**Step 5**
Refit the module good link to the option board.
Internal Schematic

Typical Circuit Connections
**Alpha Inhibit Option - Typical Waveforms**

Inhibit to output fall delay (12M module, 8Amps load), (typical delay 520uS)

![Typical Waveform 1](image1)

Inhibit to output rise delay (12M module, no load), (typical delay 720uS).

![Typical Waveform 2](image2)