V05/V10 Option – Quick Start Guide

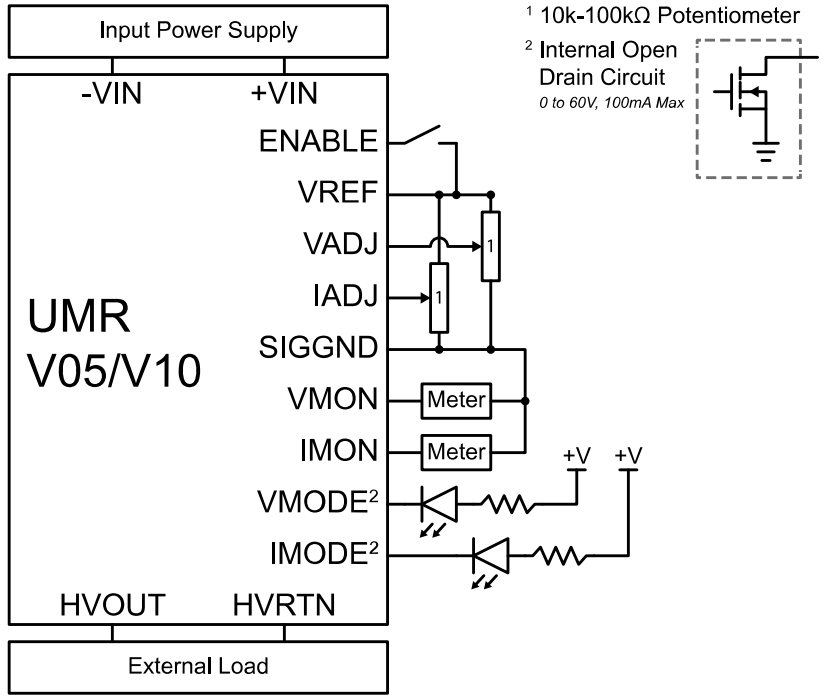
REQUIRED CONNECTIONS:

1. Connect Input Power Supply to -VIN and +VIN
   - *4W Units Use 12VDC, 0.2A - 0.5A*
   - *15W, 20W & 30W Units Use 24VDC, 0.2A - 1.5A*
2. Connect VADJ to Control the HVOUT Voltage
   a. Connect a Potentiometer[1] Between VREF and SIGGND and the Wiper to VADJ (or)
   b. Connect a Variable DC Power Supply to VADJ and SIGGND
      - *OPTION-V05: 0.0V to +5.0V is 0% to 100% Rated Voltage*
      - *OPTION-V10: 0.0V to +10.0V is 0% to 100% Rated Voltage*
3. Connect IADJ to Control the HVOUT Current
   a. Connect a Potentiometer[1] Between VREF and SIGGND and the Wiper to IADJ (or)
   b. Connect a Variable DC Power Supply to IADJ and SIGGND
      - *OPTION-V05: 0.0V to +5.0V is 0% to 100% Rated Voltage*
      - *OPTION-V10: 0.0V to +10.0V is 0% to 100% Rated Voltage*
4. Enabling the Output
   a. Connect ENABLE to VREF Using a Switch (or)
      - *Open Switch = HVOUT Disabled*
      - *Closed Switch = HVOUT Enabled*
   b. Connect DC Power Supply to VREF and SIGGND
      - *GND to +0.5V = Disabled*
      - *+2.4V to 32V = Enabled*

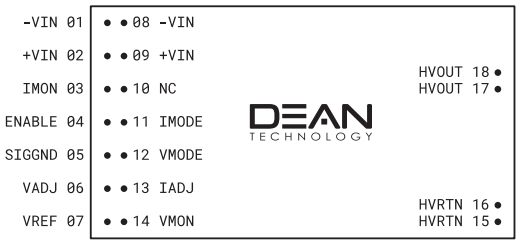
OPTIONAL CONNECTIONS:

1. Apply an External Load Across HVOUT and HVRTN
2. Voltage Mode Indicator VMODE[2]
   - Connect +V Source, Resistor, and Indicator LED to VMODE
3. Current Mode Indicator IMODE[2]
   - Connect +V Source, Resistor, and Indicator LED to IMODE
4. Voltage Monitor Using a Meter Across VMON to SIGGND
   - *OPTION-V05: 0.0V – 5.0V is 0% – 100% Rated Voltage*
   - *OPTION-V10: 0.0V – 10.0V is 0% – 100% Rated Voltage*
5. Current Monitor Using a Meter Across IMON to SIGGND
   - *OPTION-V05: 0.0V – 5.0V is 0% – 100% Rated Voltage*
   - *OPTION-V10: 0.0V – 10.0V is 0% – 100% Rated Voltage*

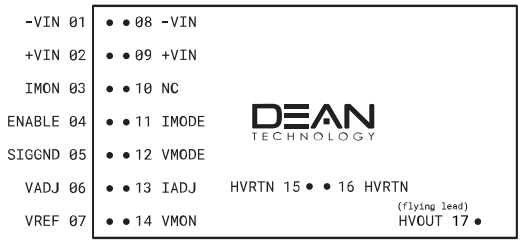
CONNECTION DIAGRAM:



PIN LAYOUT:



0 to 6kV Models



10kV Models

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