

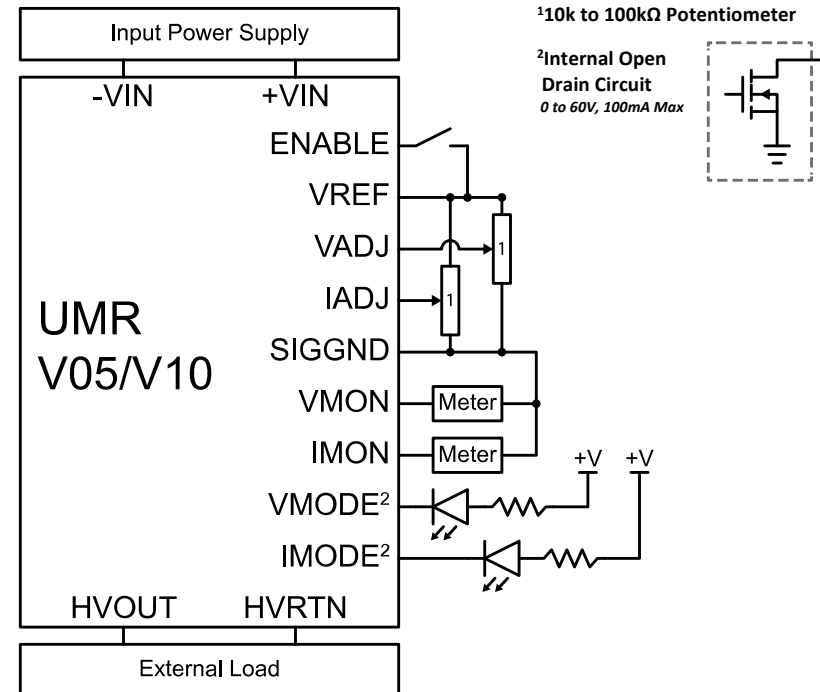
UMR-A QUICK START GUIDE

V05/V10 OPTION

CONNECTION DIAGRAM

REQUIRED CONNECTIONS

- Connect Input Power Supply to **-VIN** and **+VIN**
 - 4W Units - use 12VDC, 0.2A to 0.5A
 - 15W, 20W & 30W Units - use 24VDC, 0.2A to 1.5A
- Connect **VADJ** to control the **HVOUT** voltage
 - Connect a potentiometer¹ between **VREF** and **SIGGND** and the wiper to **VADJ** or
 - Connect a variable DC Power Supply to **VADJ** and **SIGGND**
 - V05 Option - 0.0V to +5.0V is 0% to 100% Rated Voltage
 - V10 Option - 0.0V to +10.0V is 0% to 100% Rated Voltage
- Connect **IADJ** to control the **HVOUT** current
 - Connect a Potentiometer¹ between **VREF** and **SIGGND** and the wiper to **IADJ** or
 - Connect a variable DC Power Supply to **IADJ** and **SIGGND**
 - V05 Option - 0.0V to +5.0V is 0% to 100% Rated Voltage
 - V10 Option - 0.0V to +10.0V is 0% to 100% Rated Voltage
- Enabling the Output
 - Connect **ENABLE** to **VREF** using a switch or
 - Open Switch = HVOUT Disabled
 - Closed Switch = HVOUT Enabled
 - Connect DC Power Supply to **VREF** and **SIGGND**
 - GND to +0.5V = Disabled
 - +2.4V to 32V = Enabled

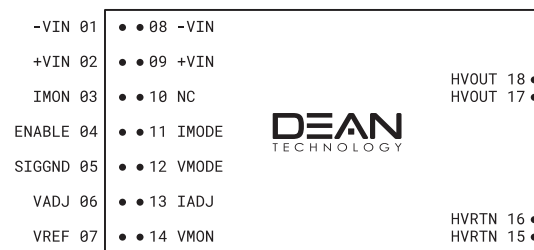


OPTIONAL CONNECTIONS

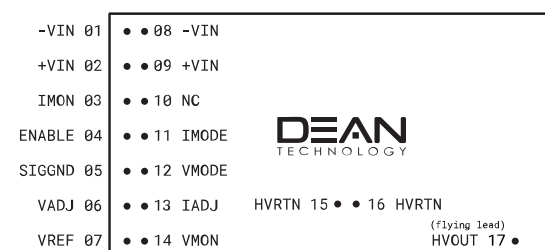
- Apply an external load across **HVOUT** and **HVRTN**
- Voltage Mode Indicator **VMODE**²
 - Connect +V source, resistor, and indicator LED to **VMODE**
- Current Mode Indicator **IMODE**²
 - Connect +V source, resistor, and indicator LED to **IMODE**
- Voltage Monitor using a meter across **VMON** to **SIGGND**
 - V05 Option - 0.0V to 5.0V is 0% to 100% Rated Voltage
 - V10 Option - 0.0V to 10.0V is 0% to 100% Rated Voltage
- Current Monitor using a meter across **IMON** to **SIGGND**
 - V05 Option - 0.0V to 5.0V is 0% to 100% Rated Voltage
 - V10 Option - 0.0V to 10.0V is 0% to 100% Rated Voltage

PIN LAYOUT

0 to 6kV Models



10kV to 40kV Models



NOTE: Some products might have **IMON** labeled as **IOUT**, **VADJ** labeled as **RMTADJ**