

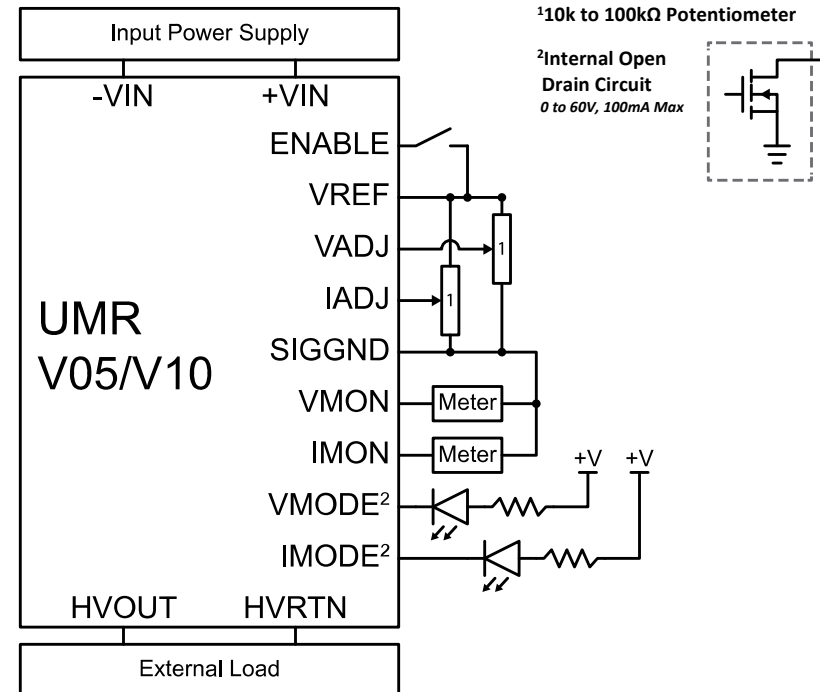
# UMR-AA QUICK START GUIDE

## V05/V10 OPTION

### CONNECTION DIAGRAM

#### REQUIRED CONNECTIONS

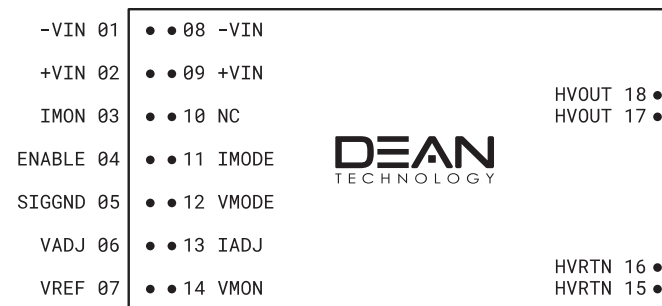
- Connect Input Power Supply to **-VIN** and **+VIN**
  - 4W Units - use 12VDC, 0.2A to 0.5A
  - 20W & 30W Units - use 24VDC, 0.2A to 1.5A
- Connect **VADJ** to control the **HVOUT** voltage
  - Connect a potentiometer<sup>1</sup> between **VREF** and **SIGGND** and the wiper to **VADJ** or
  - Connect 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 Potentiometer<sup>1</sup> 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**<sup>2</sup>
  - Connect +V source, resistor, and indicator LED to **VMODE**
- Current Mode Indicator **IMODE**<sup>2</sup>
  - 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



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