UMR-A Quick Start Guide

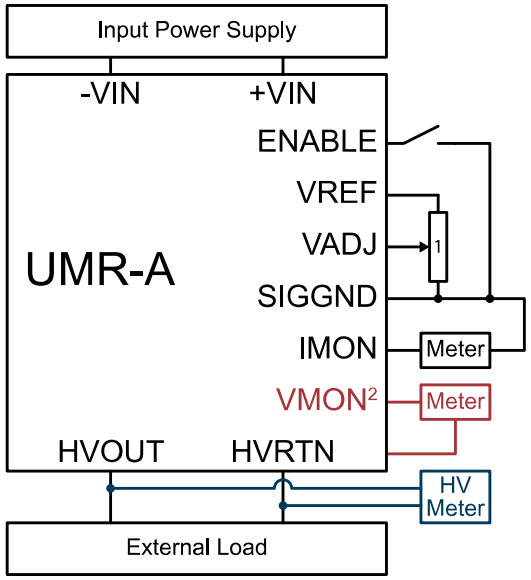
Required Connections

1. 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*
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**
      - *Positive Models - 0V to +4.64V is 0% to 100% Rated Voltage*
      - *Negative Models - +5.0V to +0.36V is 0% to 100% Rated Voltage*

Optional Connections

1. Apply an External Load Across **HVOUT** and **HVRTN**
2. Enabling the Output
   a. **HVOUT** is Enabled when **ENABLE** not connected or
   b. Connect DC Power Supply to **VREF** and **SIGGND**
      - *GND to +0.5V = Disabled*
      - *+2.4V to 32V = Enabled*
3. Monitor Output Voltage
   a. **Standard Models (0 to 6kV only)** – High Voltage Meter across **HVOUT** and **HVRTN**
   b. **Standard Models (10kV to 40kV), -Y05 and -F Option Models (0 to 6kV)[2]** – Meter across **VMON** and **HVRTN**
      - *Use 10 Megaohm Meter*
      - *For 10kV to 40kV units & -Y05 Option units, VMON pin is 9*
      - *For -F Option, VMON pins are 12 & 13*
4. Current Monitor Using a Meter Across **IMON** to **SIGGND**
   - *Use 10 MΩ Meter*
   - *See Datasheet for Scaling*

Connection Diagram

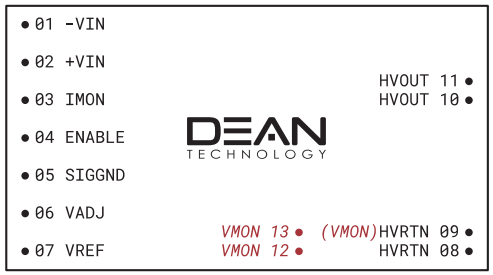


[1]10k to 100kΩ Potentiometer

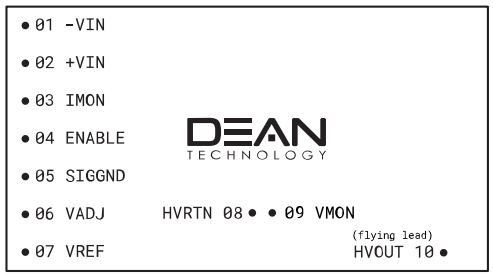
[2]10:1 Scaling for <1kV
100:1 Scaling for >1kV

Pin Layout

0 to 6kV Models



10kV to 40kV Models



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

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