

UMR-HPC – QUICK START GUIDE

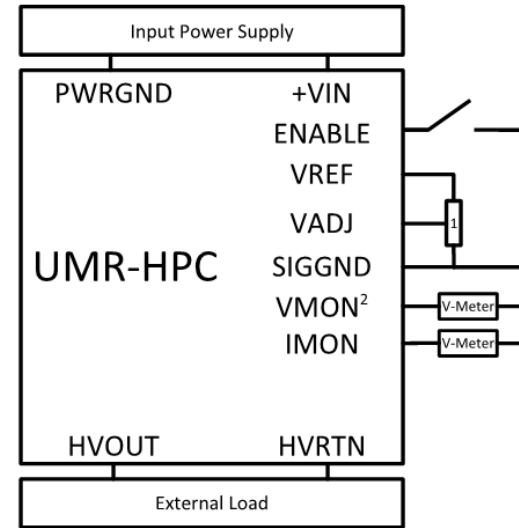
REQUIRED CONNECTIONS:

1. Connect Input Power Supply to PWRGND and +VIN
 - 60W & 125W Units Use 24VDC, 2.0mA to 1000.0mA
2. Connect VADJ to Control the HVOUT Voltage
 - a. Connect a Potentiometer¹ Between VREF and SIGGND and the Wiper to VADJ (or)
 - b. Connect a Variable DC Power Supply to VADJ and SIGGND
 - Positive Models: 0.0V to +4.64V is 0% to 100% Rated Voltage
 - Negative Models: +5.0V to +0.36V is 0% to 100% Rated Voltage

OPTIONAL CONNECTIONS:

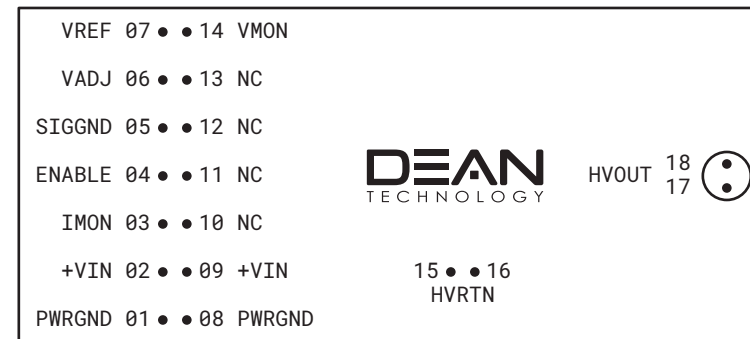
1. Apply an External Load Across HVOUT and HVRTN
2. Enabling the Output
 - a. HVOUT is Enabled when ENABLE not Connected (or)
 - b. Connect DC Power Supply to VREF and SIGGND
 - GND to +0.5V = Disabled
 - +2.4V to 32V = Enabled
3. Monitor Output Voltage Using a Meter Across VMON and SIGGND
 - Use 10 Megaohm Meter
 - See note 2 for Scaling
4. Current Monitor Using a Meter Across IMON to SIGGND
 - Use 10 Megaohm Meter
 - See Datasheet for Scaling

CONNECTION DIAGRAM:



- ¹ 10k to 100kΩ Potentiometer
² 100:1 Scaling for <8kV
 1000:1 Scaling for ≥8kV

PIN LAYOUT:



NOTES:

- Units >6kV use a LGH style connector in place of pins 17, 18. Models 8kV to 15kV use LGH-1, 20kV to 30kV use LGH-3

V05/V10 OPTIONS – QUICK START GUIDE

REQUIRED CONNECTIONS:

1. Connect Input Power Supply to PWRGND and +VIN
 - 60W & 125W Units Use 24VDC, 2.0mA to 1000.0mA
2. Connect VADJ to Control the HVOUT Voltage
 - c. Connect a Potentiometer¹ Between VREF and SIGGND and the Wiper to VADJ (or)
 - d. Connect a Variable DC Power Supply to VADJ and SIGGND³
3. Connect IADJ to Control the HVOUT Current
 - e. Connect a Potentiometer¹ Between VREF and SIGGND and the Wiper to IADJ (or)
 - f. Connect a Variable DC Power Supply to IADJ and SIGGND³
4. Enabling the Output
 - g. Connect ENABLE to VREF Using a Switch (or)
 - Open Switch = HVOUT Disabled
 - Closed Switch = HVOUT Enabled
 - h. Connect DC Power Supply to VREF and SIGGND
 - GND to +0.5V = Disabled
 - +2.4V to 32V = Enabled

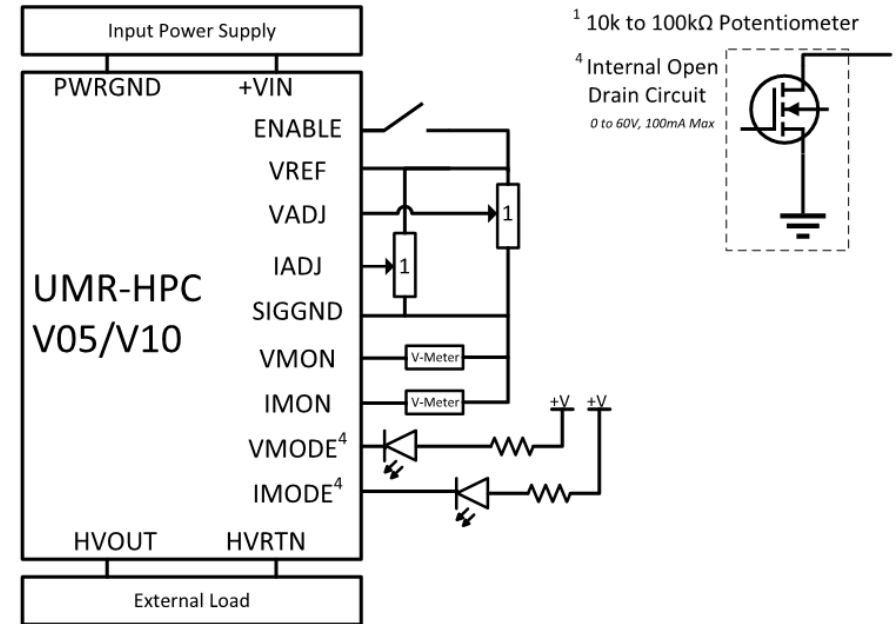
OPTIONAL CONNECTIONS:

1. Apply an External Load Across HVOUT and HVRTN
2. Voltage Mode Indicator VMODE⁴
 - Connect +V Source, Resistor, and Indicator LED to VMODE
3. Current Mode Indicator IMODE⁴
 - Connect +V Source, Resistor, and Indicator LED to IMODE
4. Voltage Monitor Using a Meter Across VMON to SIGGND³
5. Current Monitor Using a Meter Across IMON to SIGGND³

NOTES:

- Units >6kV use a LGH style connector in place of pins 17, 18. Models 8kV to 15kV use LGH-1, 20kV to 30kV use LGH-3
- V05 OPTION: 0.0V to 5.0V is 0% – 100% Rated Voltage
V10 OPTION: 0.0V to 10.0V is 0% – 100% Rated Voltage

CONNECTION DIAGRAM:



PIN LAYOUT:

