

UMR-HPC QUICK START GUIDE

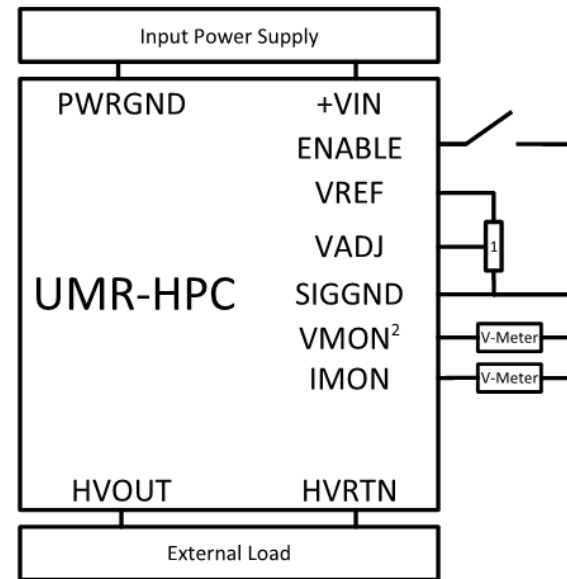
REQUIRED CONNECTIONS

- Connect Input Power Supply to **PWRGND** and **+VIN**
 - 60W & 125W Units - use 24VDC, 7A
 - 250W Units – use 24VDC, 13A
- 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**
 - 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

- Apply an external load across **HVOUT** and **HVRTN**
- Enabling the Output
 - HVOUT** is Enabled by default, connect **ENABLE** pin to **SIGGND** for disable. Connect **ENABLE** pin to **VREF** for enable
 - GND to +0.5V = Disabled
 - +2.4V to 32V = Enabled
- Monitor output voltage using a meter across **VMON** and **SIGGND**
 - Use 10 MΩ Meter
 - See note 2 for Scaling
- Current Monitor Using a Meter Across **IMON** to **SIGGND**
 - Use 10 MΩ Meter
 - See Datasheet for Scaling

CONNECTION DIAGRAM

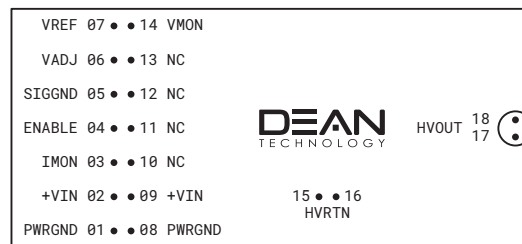


¹10k to 100kΩ Potentiometer

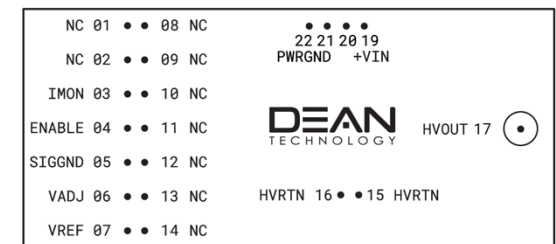
²100:1 Scaling for <8kV
1000:1 Scaling for ≥8kV

PIN LAYOUT

60W & 125W Models



250W Models



NOTE: 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

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V05/V10 OPTION

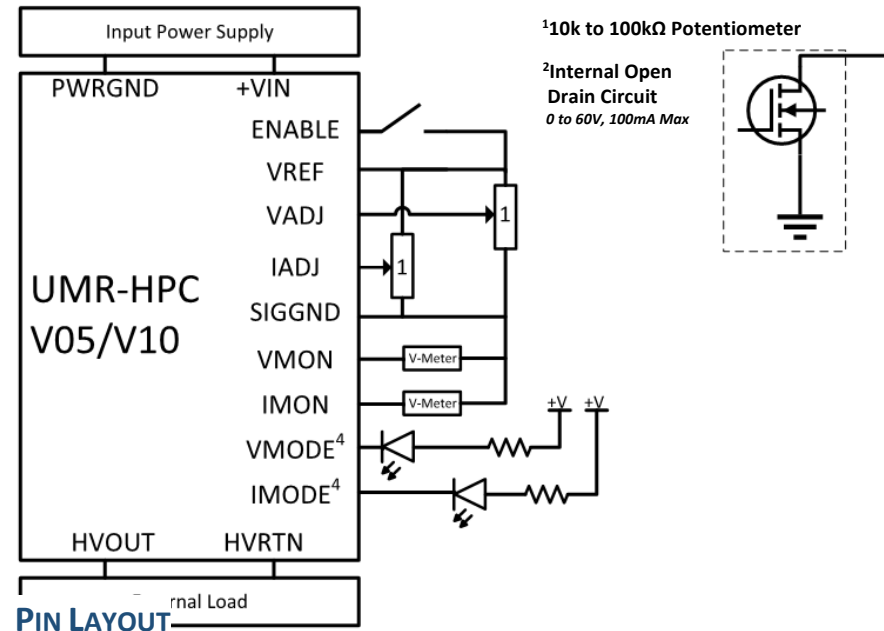
REQUIRED CONNECTIONS

- Connect Input Power Supply to **PWRGND** and **+VIN**
 - 60W & 125W Units - use 24VDC, 7A
 - 250W Units – use 24VDC, 13A
- 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**³
- 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**³
- Enabling the Output
 - HVOUT** is Enabled by default, connect **ENABLE** pin to **SIGGND** for disable. Connect **ENABLE** pin to **VREF** for enable
 - GND to +0.5V = Disabled
 - +2.4V to 32V = Enabled

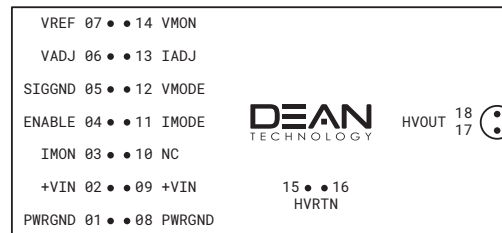
OPTIONAL CONNECTIONS

- Apply an external load across **HVOUT** and **HVRTN**
- Voltage Mode Indicator **VMODE**⁴
 - Connect +V Source, resistor, and indicator LED to **VMODE**
- Current Mode Indicator **IMODE**⁴
 - Connect +V Source, resistor, and indicator LED to **IMODE**
- Voltage Monitor using a meter across **VMON** to **SIGGND**³
- Current Monitor using a meter across **IMON** to **SIGGND**³

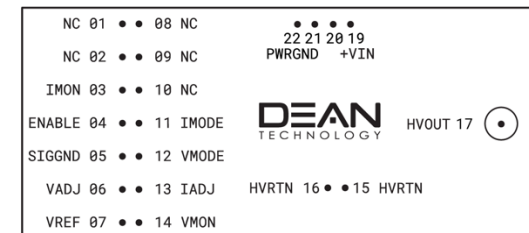
CONNECTION DIAGRAM



60W & 125W Models



250W Models



Note:

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% to 100% Rated Voltage
 -V10 Option - 0.0V to 10.0V is 0% to 100% Rated Voltage