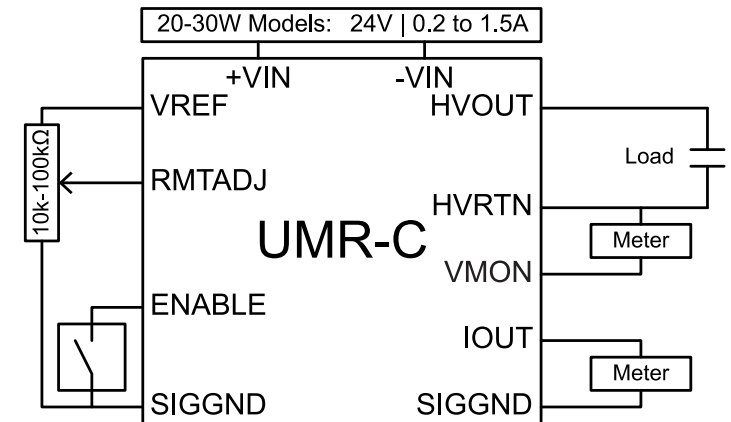# UMR-C – QUICK START GUIDE

CONNECTING THE UNIT:

1. Connect load to **HVOUT** and **HVRTN**
2. Connect multimeter to **VMON** (pin 9) and **HVRTN** (pin 8)
3. Connect multimeter to **IOUT** (pin 3) and **SIGGND** (pin 5)
4. Connect power to **+VIN** (pin 2) and ground to **-VIN** (pin 1)
5. Connection to adjust high voltage output:
   - Option 1: A 0V - 5V power supply connected to **RMTADJ** (pin 6) and **SIGGND** (pin 5)
   - Option 2: A potentiometer (10k - 100k) connected between **VREF** (pin 7) and **SIGGND** (pin 5) with wiper connected to **RMTADJ** (pin 6)

OPERATING THE UNIT:

1. Power on unit: unit is default enabled
   - Apply 24V to **VIN** (pin 1 and pin 2)
2. Adjust output voltage:
   - Adjust output voltage **HVOUT** (pin 10 and 11) using **RMTADJ** (pin 6)
   - Positive Units: 0.0V - 4.7V for 0% - 100% output
   - Negative Units: 5.0V - 0.3V for 0% - 100% output
3. Observe output:
   - Output voltage observed at the **VMON** (pin 9) (10:1 <1kV or 100:1 ≥1kV)
   - Output current observed at **IOUT** (pin 3) (*see datasheet for scaling*)

CONNECTION DIAGRAM:

PIN LAYOUT:

DEAN
TECHNOLOGY