Heliosphere

v0.1.0

Praise the sun. A sensing board that measures irradiance in a calibrated test setup.

Errata
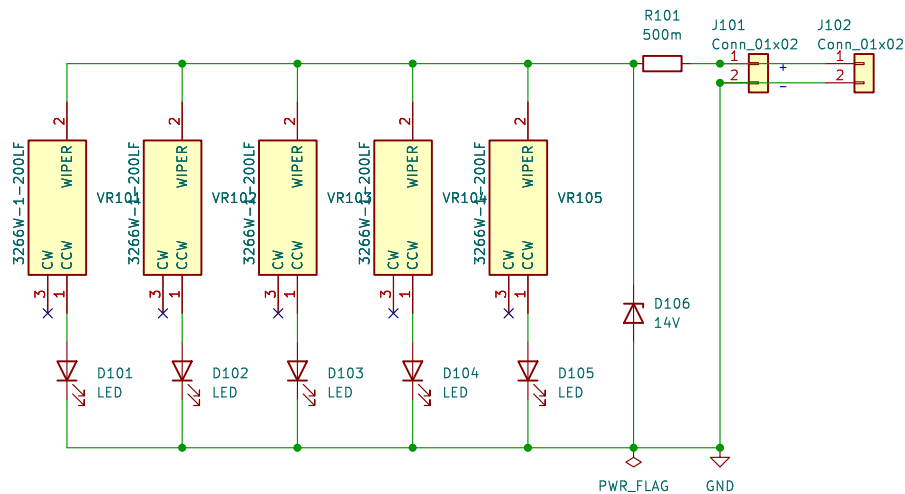
v0.1.0
— Initial revision.

Modular. Input power source is expected to be 28V, up to 36A. Stack two on each other to get 14V. −0.5V through power resistor to get 13.5V. Noise limited through 14V zener diode shunt. Assume the board draws 1A (14W total). Assume each LED sinks a max of 0.2A, which implies 5 sets of LEDs. Use at least 16 AWG wire.

R101
500m

J101
Conn_01x02

J102
Conn_01x02

VR101 3266W-1-200LF WIPER CW CCW
VR102 3266W-200LF WIPER CW CCW
VR103 3266W-200LF WIPER CW CCW
VR104 3266W-200LF WIPER CW CCW
VR105 3266W-200LF WIPER CW CCW

D101 LED
D102 LED
D103 LED
D104 LED
D105 LED

D106 14V

PWR_FLAG

GND