

5500A Multi-Channel Driver/Controller

Features

- Single constant current source
- Uniform driver current across array for precise exposure control
- Up to 5A each for up to 18 UV-LED die (Max recommended for LumiDL™ is 3.0A per die.)



Connectivity

- Command each set for Ethernet and Modbus serial communication
- External trigger

Parameter	Specification	Comment
Type	Constant current, dimmable	1 to 18 channels
Output voltage	6.0V DC compliance	Maximum, cathode ground
Output current	0 to 3 Amps (10 bit resolution)	Per channel, common cathode
Input voltage	+24 VDC @ 25A max	+/- 5%
Efficiency	80% minimum	At maximum load
Current ripple	0.5% RMS maximum	At maximum voltage (6.0V DC)
Over temperature sensors	In both source and driver	LED status indicators (local)
Operating Modes	Continuous (CM) or pulsed mode	User selectable
Dimming	Analog or PWM	Set remotely
External trigger	Instantaneous or with programmable	User enabled
LED module I/O	Thermistor, photosensor	Monitoring
Pulse repetition rate	15 kHz	Maximum
Pulse width	<20 µec	Minimum
Connectivity	USB 2.0 1-/100 Mbps ethernet RS-232 (TIA-232-F)	Standard A-type RJ-45 3-pin Molex Sherlock™
Programming	Command set for serial (USB) and telnet (Ethernet) communication	Pulse width
Size and Weight	228 x 290 x 45mm; 2.2 kg	