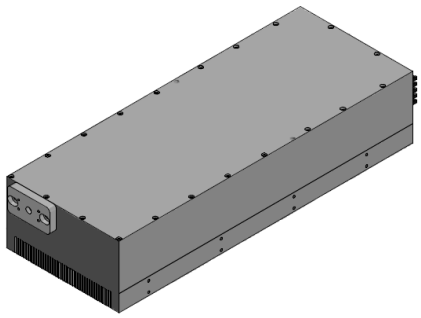
Sol 4W 355nm - Preliminary
Q-Switched compact ns DPSSL

Spec. #: SL21101



FEATURES

_Up to 4W @ 355nm
_down to 15 ns
_up to 100 kHz
_All solid state design
_Air Cooled

Technical Specifications	Typical	
Output Wavelength	355	nm
Output Power	up to 4	W
Pulse Width	15 to 35	ns
Repetition Rate	30 to 100	kHz
Polarization	Linear 100:1	
Beam diameter ($1/e^2$)	< 1 *(option: external beam expander)*	mm
Beam Quality (M^2)	< 1.5 @ 30 kHz	
Electrical Requirements	Dual DC IN 15 V – 12 V (*)	
Cooling	Air Cooled	
Overall dimensions	46 x 17 x 10	cm^3

(*) Optional: 100-230 AC DC Power Supply

Options Available:	Applications:
- Beam Expanding and Collimating optics - Contact cooling	- Specialty Marking - Material Processing - Medical - OLED

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Electronic interface

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Pin nr.	Description
1 – Enable Input	If 0V prevents laser emission. Assert the Enable signal at least 500ms later than Interlock signal and if System OK is High.
4 – Current monitor Output	Shows the diode current flowing.
5 – Warm_Up Output	Low during the initial warm-up phase; It remains High if internal temperature controller is OK
6 – Thermistor_OK Output	High if case temperature is within the permitted range
7 – Q-Switch_OK Output	High if Q-Switch circuitry is working properly.
8 – LD Driver_OK Output	High if diode laser driver is working properly.
9 – Laser Armed Output	High when diode lasers are emitting
10 – System_OK Output	High if no internal alarms
11 – Auxiliary +5V Output	
13 – Pulse IN Input	Set the laser pulse repetition rate according to the TTL signal frequency and laser output power level accoding to TTL signal duty cycle (PWM): - duty cycle 1% = full power - duty cycle 99% = minimum power
22 - Interlock	If at Low level, it prevents laser emission and all the other signals are ignored. It is recommended to use this signal for Emergency laser stop.
24 – GND	Reference for IO signals
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