KRONA ELECTRONICS

Vue-MC Multi-Channel Laser Diode Controller

Applications

- Materials processing
- Burn-in stations
- Pump applications

Features

- 8 channels at 6A or 4 channels at 12A
- High compliance voltage option
- Dual optical power monitor inputs per channel
- Multiple units controllable with a single computer

The Vue-MC series of multi-channel laser diode controllers is designed to provide stable, low noise drive current for materials processing, burn-in, and pump applications. Available with 8 channels at 6A per channel or 4 channels at 12A per channel, the Vue-MC series offers a reliable, cost effective solution in a compact 1U rack mount package.

Each channel has two independent light level inputs to monitor power or operate in constant power mode.

VueMetrix control software is designed to be intuitive and easy to use. Operating with Windows™ the user can easily set operating points, diode current limits or choose between constant current and power modes with the intuitive, menu driven software.

Software Tools to increase user productivity, such as LIV testing and data logging have been included. LIV curves can be generated and exported with a simple click of the mouse. For burn-in applications, the data logging feature allows the user to collect all available parameters at user defined intervals, then export for easy analysis or graphing.

The compact size, on-board intelligence, and intuitive software makes the Vue-MC easy to integrate into distributed pump architecture fiber lasers, multi-diode material processing systems, or in-house burn-in systems. In addition, multiple Vue-MC units can be controlled by a single computer.

For high density burn-in applications the Vue-MC can be ordered with the high compliance option to further reduce the cost per test device (DUT). The high compliance option provides 10 volts per channel.

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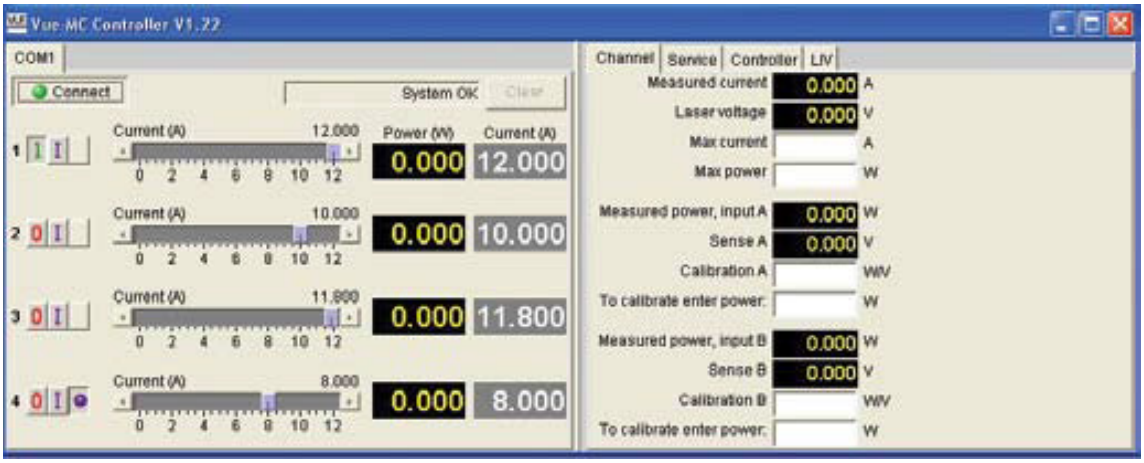
SPECIFICATIONS	MC-806	MC-412
Parameter		
Maximum Output Current	6A	12A
Number of Channels	8	4
Current Set Point Resolution	2mA	4mA
Current Accuracy	± 0.5% of reading plus ± 0.1A	
Compliance Voltage @ Max. Current	3.8V or 10.0V[1]	
Noise/ripple[2] (20Hz to 500kHz)	<1mA RMS	
Laser Voltage Measurement	0 - 4.5V (10V for HC option[1])	
Laser Voltage Resolution	2mV (4mV for HC option)	
Laser Voltage Accuracy	± 1% plus offset of ± 2mV (± 4mV for HC option)	
Power Sense Input Range[1]	0 - 4V in voltage input mode or 0 - 2mA in current input mode	
Power Sense Resolution	2mV or 1µA depending on input mode	
Power Accuracy	User-calibrated via user interface	
Output Connectors	Molex 43045-1002 (output cables included)	
User Interface	WinMC software, requires Windows™ PC via RS-232	
Input Power Requirements	90 - 264 VAC, 47 - 63 Hz, 5A (7A for HC option)	
Dimensions of Enclosure (W x H x D)	16.95” x 1.75” x 20.5”	

[1] High compliance voltage option requires at least a 5V drop across an external load for currents exceeding ½ maximum rated output current. Contact Krona for further details.
[2] Noise specification applies when total output current exceeds 2A.
[3] The power sense input is set at the factory to sense either voltage or current. Specify when ordering.

Krona Electronics is continually improving the performance of its products. Specifications are subject to change without notice.



WinMC Software, 4 Channel

Vue-MC front panel

Vue-MC rear panel

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