



Vue-HC Series – High Current Controllers



Applications:

- Materials processing
- Medical systems

Benefits:

- Complete system solution
- Ease of integration
- Improve time to market
- Advanced safety monitoring and control

The **Vue-HC** series of high current drivers from VueMetrix are the first controllers to offer the performance of a bench top scientific controller with the size and attributes of an OEM controller. These units are available as complete systems for stand-alone operation or in PCB options for embedding into another instrument. With advanced control and monitoring functions and diode safety features like soft start circuitry and user settable limits for temperature and current, the Vue-series controllers are more than a power supply.

The unique design combines onboard intelligence and firmware with a powerful user interface software package. WinVue software transforms the OEM controller into a bench top lab controller and allows the user to do more than just control the laser diode. Software tools like data logging with one click data export, power calibration, user settable power and current limits, and the ability to visualize all control settings and inputs helps shorten the product development cycle. In addition the computer control allows you to lower manufacturing cost by automating routine setup.

When it's time to incorporate the Vue-HC series driver into your application, all of the functions of the user interface software are available through a complete library of RS-232 commands. As an embedded controller the Vue-HC series is always monitoring the safety and status of the laser diode and safety interlocks. When it senses a fault condition it will safely shut down to protect your laser diode investment. Or use the Vue-HC series controllers as the main system controller and take advantage of the programmable auto-start macros.

VueMetrix specializes in laser diode control systems – allowing us to design the electronics and freeing you to do what you do best, design the optical system. Our experienced team of hardware and software designers can supply you with cost effective, state of the art controllers. Talk to us about how VueMetrix controllers can give your product a significant edge.



Embedded PCB only option

Features:

- 2.5V 100A, 5V 50A, and 5V 70A versions
- WinVue user interface software
- CW and pulsed versions
- Stand-alone or embedded options
- Inputs for power and temperature monitoring



WinVue Graphical User Interface

Specifications:

	Vue-HC-550	Vue-HC-2100	Vue-HCV
Output			
Output Current	50A	100A	70A
Output Current Resolution	0.10%		
Noise/ripple	0.50%	0.50%	0.20% RMS
Compliance Voltage @ Max. Current	5.0 V at output	2.5 V at output	5.0 V at output
Laser Voltage Measurement Range	0-7.5 V		
Laser Voltage Measurement Resolution	0.03%		
Laser Voltage Measurement Accuracy	2%		
Monitor Inputs			
Light-loop/monitor Input Signal Range	0-5 mA	0-2 mA or 0-2.5 V, factory settable	
Light-loop Input Signal Resolution	0.03% FS		
Light-loop Input Signal Accuracy	User calibrated using software interface		
Temperature Sensor (not included)	NTC 10K Ω		
Temperature Resolution	0.03°C, typical		
Temperature Accuracy	User calibrated		
Pulsed Operation			
Pulse Rate (internal control)	CW Only	CW Only	1 kHz, max.
Rise Time	n/a	n/a	170 usec, nominal
Pulse Width	n/a	n/a	User settable
External Trigger	n/a	n/a	TTL, edge trigger
External Bias Control	n/a	n/a	0-2.5 V
Connectors			
Data	RS-232, DB-9		RS-232, DB-9 or USB-B
External Trigger and Bias Control	n/a		SMB
Output	DB37 female, mixed pin		
Optional Output Cable, 1 Meter	DB37 male, one end only		
General			
Input Power	90-264 VAC		
Frequency	47-67 Hz		
Current	<6 amp at 115 VAC		<8.6A max
Power Factor	0.95		
Efficiency	80%		
EMI	Designed to meet FCC-B		
Operating Temperature	0°C to 40°C, non-condensing		
Dimensions (HxWxD)	3.8"x6.3"x11.8"		

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