



Vue-MV Multi-Diode Controller with DiodeGuard™ Safety Circuitry



Applications:

- Fiber lasers and amplifiers
- Medical systems
- Direct diode materials processing

Benefits:

- Improved system reliability
- Reduced bill-of-materials
- Faster time to market
- Lower overall costs

In addition to the array of safety features common to all VueMetric products, the MV-21 and MV-40 are equipped with DiodeGuard™, a revolutionary advance in laser diode protection. The DiodeGuard circuit and its' supporting firmware will protect your valuable laser diode against two of the most common causes of laser diode failure.

The new MV controllers are designed for applications that use multiple high-powered discrete diodes operated in series. With greater numbers of diodes operating in series the risk is higher of a cascade failure caused by a diode short circuit or an intermittent connection. The Vue-MV with DiodeGuard is designed to protect your valuable laser diodes from these problems.

The Vue-MV has all the attributes expected in an OEM controller - and more. In addition to being compact, low cost and configurable, its extensive feature set allows it to be a bench top controller, a stand-alone system controller, or an embedded control component in a complex instrument.

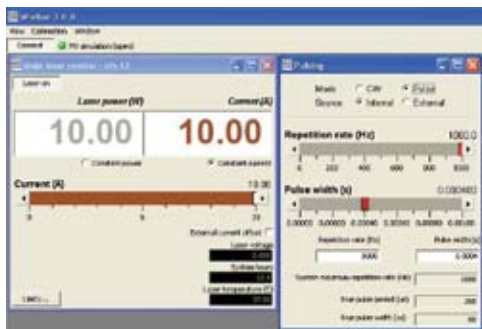
With WinVue software and an attached PC this highly advanced OEM controller provides all the functionality of an expensive lab instrument in an OEM form factor. WinVue provides tools to aid the design and production engineer to bring your product to market faster.

The MV-21 and MV-40 with DiodeGuard™ combines innovative circuit design, software diagnostics and a digital control interface to set a new standard in laser diode control and safety.

For more information and to see why the Vue-series is the only laser diode controller you'll ever need, contact VueMetric today.

Features:

- DiodeGuard Advanced Safety Circuit
- Advanced control and monitoring function
- WinVue user interface software
- Stand-alone or embedded operation
- OEM systems or PCB only options



WinVue Graphical User Interface

Specifications:

	MV-21	MV-40
Output		
Output Current and Voltage		
Option-01	10A, 21V max.	10A, 40V max.
Option-02	15A, 14V max.	15A, 27V max.
Output Current Resolution	0.03% full scale	
Noise/ripple @ Max. Load	0.05% RMS	
Compliance Voltage @ Max. Current	6-21V	10-40V
Laser Voltage Measurement Range	0-21V	0-40V
Laser Voltage Measurement Resolution	0.03%	
Laser Voltage Measurement Accuracy	3%	
Pulsed Operation		
Pulse Rate (Internal Control)	User settable up to 100 Hz, max.	
Pulse Width (Internal Control)	User settable	
Pulse Rise Time (typical, at max. current)	< 1.5 msec	
External Trigger	TTL, edge trigger	
External Level Control	0-5V	
Monitor Inputs		
Light-loop/monitor Input Signal Range	0-2 mA or 0-2.5V, factory settable (default is 0-2.5V)	
Light-loop/monitor Input Signal Resolution	0.03% FS	
Light-loop/monitor Input Signal Accuracy	User calibrated using software interface	
Temperature Sensor (not included)	NTC 10KΩ	
Temperature Resolution	0.03°C, typical	
Temperature Accuracy	User calibrated	
Connectors		
Data	RS-232 or USB-B	
Output	DB15 female, mixed pin (male mating connector included)	
External Trigger	SMB	
External Level	SMB	
Interlock	Molex 43025-0200 (male mating connector included)	
Power	AC w/ ground	
General		
Input Power	90-264 VAC	
Current	< 6A at 115V	< 8A at 115V
Frequency	47-67 Hz	
Efficiency	90%	
EMI	Designed to meet FCC-B	
Operating Temperature	0°C to 40°C, non-condensing	
Dimensions (HxWxD)	3.5" x 3.75" x 8.25"	4.01" x 4.84" x 10.68"
Optional AC Power Supply		
Input Voltage	24 VDC +/-5%	48 VDC +/-5%
Input Current	<11A, max.	<11A, max.

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VueMetrix endeavors to continually improve product performance. Specifications are subject to change without notice.

