

485-02-15 LaserPak, 2A



The **485-02-15** mirrors much of the functionality of our 4302 LaserSource, with 2 Amps and 15 Voltages of output capability. With a lower cost and smaller footprint, the LaserPak fits better into embedded applications and other low cost applications.

High Compliance

The 485-02-15 features a high 15V compliance for higher voltage applications, such as LED testing or quantum cascade lasers (QCLs), as well as excellect performance with lower voltage laser diodes.

Analog or Computer -- Your Choice

The 485 Series LaserPaks provide both a robust analog interface as well as computer control (USB or RS232) for precise remote operation (you can even use both interface simultaneously). The analog interface provies on/off control, status, and analog monitor of current and voltage, while the computer interface provies complete control over all operating parameters.

Analog Modulation

The 485-02-15's analog interface supports modulation rates up to 65kHz.

- 2A range
- 15V compliance
- 0.1mA resolution
- <60uA noise
- USB and RS-232 interfaces

Develop with a LaserSource, Deploy with a LaserPak

The LaserPak is command-set compatible with the LaserSource an also features the identical laser interface. This means you can start your development with the LaserSource, a robust benchtop instrument with a full user interface and display, then move to the lower cost LaserPak as you roll out the application to production or your end-users.

Simple Multi-Channel System

Using the 1402C-RM Rack Mount Tray, you can quickly rack groups of 3 or 5 Paks into a rack for a quick multi-channel system.



USB & RS232 Computer Interfaces Includes for USB and RS232 computer interfaces standard.



Field Configurable AC Input The LaserPak is configured in the factory for either 115V (485-02-15-115) or 230V (485-02-15-230) operation, but can be reconfigured in the field for either voltage.



Specifications

	485-02-15 -115 for 115 VAC
Model Numbers	485-02-15 -230 for 230 VAC
	Field configurable

CW Mode Specifications

	LASER CURRENT	
	Range (mA)	0 – 2000
	Resolution (mA)	0.1
	Accuracy (±[% set+mA])	0.05% + 0.4
	Stability (ppm, time)	< 10, 1 hour
	Temperature Coeff (ppm/°C)	50
Noise/Ripple (µA rms, low BW)< 60)< 60
	Transients (µA)	< 300
	Compliance Voltage (V)	15
	Modulation Bandwidth (kHz)	65
	Modulation Input Range	0 – 10V, 10kΩ
	PHOTODIODE CURRENT	
	Range (µA)	5 – 10000
	Resolution (µA)	1
	Accuracy (±[% set+µA])	0.05% + 1
	Stability (ppm, time)	< 200, 24 hours
	Temperature Coeff (ppm/°C)	< 200
	PD Bias (V)	No Bias, -3V, or -5V (jumper)
	LASER VOLTAGE	
	Range (V)	0 – 15
	Resolution (V)	0.001
S	Setpoint Accuracy (±[% et+V])	0.05% + 0.005
re	Measurement Accuracy (±[% eading+V])	0.05% + 0.004

LIMITS

Current Limit Accuracy	(mA)	20
Voltage Limit Accuracy FS)	(±%	2.5%

ANALOG INTERFACE

Inputs	On/off control, analog modulation input
Outputs	Analog current monitor, analog photodiode monitor, on/off state, stable state
Connector	DB-15, male

GENERAL

Laser Connector	DB-9, female	
Photodiode/Interlock	On LDD connector	
Computer Interface	USB 2.0 Full Speed (Type B), RS-232 (DB-9, male)	
Input Power	115V or 230V (jumper selectable), 50 / 60Hz	
Size (H x W x D) [inches (mm)] 3.0 (77) x 4.5 (115) x 8.5 (216)		
Operating Temperature	+10°C to +40°C	
Storage Temperature	-20°C to +60°C	

