# 485-08-04 LaserPak, 8A



The 485-08-04 mirrors much of the functionality of our 4304 LaserSource, with 8 Amps and 4 Volts of output capability. With a lower cost and smaller footprint, the LaserPak fits better into embedded applications and other low cost applications.

#### **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 485-08-04's analog interface supports modulation rates up to 45kHz.

- 8A range
- 4V compliance
- 0.5mA resolution
- <200uA noise</li>
- 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 (485-08-04-115) or 230V (485-08-04-230) operation, but can be reconfigured in the field for either voltage.

## **Specifications**

Model Numbers	485-08-04 <b>-115</b> for <b>115</b> VAC 485-08-04 <b>-230</b> for <b>230</b> VAC
	Field configurable

**CW Mode Specifications** 

	mode opcomodatione	
LA	SER CURRENT	
Ra	ange (mA)	0 – 8000
Re	esolution (mA)	0.5
Ac	curacy (±[% set+mA])	0.05% + 1.6
Sta	ability (ppm, time)	< 10, 1 hour
Te	mperature Coeff (ppm/°C)	50
No	oise/Ripple (μA rms, low BW	)< 200
Tra	ansients (μΑ)	< 600
Co	ompliance Voltage (V)	4
Mo	odulation Bandwidth (kHz)	40
Mo	odulation Input Range	$0-10V$ , $10k\Omega$
Ph	IOTODIODE CURRENT	
Ra	ange (µA)	5 – 10000
Re	esolution (µA)	1
Ac	curacy (±[% set+µA])	0.05% + 1
Sta	ability (ppm, time)	< 200, 24 hours
Te	mperature Coeff (ppm/°C)	< 200
PE	) Bias (V)	No Bias, -3V, or -5V (jumper)
LA	SER VOLTAGE	
Ra	ange (V)	0 - 4
Re	esolution (V)	0.001
Se set+\	etpoint Accuracy (±[% /])	0.05% + 0.005
	easurement Accuracy (±[% ng+V])	0.05% + 0.004

### **LIMITS**

Current	Limit Accuracy (mA)	80	
Voltage FS)	Limit Accuracy (±%	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

