



*Flexibility for  
tomorrow's applications*

## **PILOT**<sub>PC</sub>

Digital High-Power  
Low-Noise Laser Diode Controller

## Product Features

- Frontpanel graphic interface
- 500mA / 3000mA LD current source with forward voltage measurement
- Const current or const power mode
- 16 W / 32 W TEC control
- Various laser protection features
- Current coupling for modehop free tuning
- GPIB, USB and RS232 remote interface



## Specifications

<b>Laser Current Source</b>		<b>Temperature Control</b>	
<b>PC500 Drive Current Output</b>		<b>TEC Output</b>	
Output Current Range	0-500mA	Output Type	Bipolar Constant Current Source
Setpoint Resolution	0.1mA	Compliance Voltage	8V
Setpoint Accuracy	±0.1%	Maximum Output Current	-2A to 2A / -4A to 4A
Noise (10Hz to 10MHz)	< 5µA	Maximum Power	16 Watt / 32 Watt
Compliance Voltage	0-7V adjustable		
		<b>Sensor</b>	
<b>PC3000 Drive Current Output</b>		Temperature Sensor	Thermistor (Pt1000) IC Temp Sensor AD590
Output Current Range	0-3000mA	Temperature Control Range	-5°C to 30°C
Setpoint Resolution	0.1mA	Setpoint Resolution	0.1°C (-5°C to 30°C)
Setpoint Accuracy	±0.1%		
Noise (10Hz to 10MHz)	< 20µA		
Compliance Voltage	0-7V adjustable	<b>Common Data</b>	
		Dimension (WxHxD)	270 x 110 x 320 mm
		Weight	< 5kg
<b>Photodiode Feedback</b>		Line Voltage	110V / 115V / 230V +/- 10%
Photodiode Current Range	2-2000µA	Line Frequency	50 .. 60Hz
Type	Diff. 100R Input	Warm-up Time	10min
		Storage Conditions	-25 .. 70°C
		Operating Temperature	0 .. 40°C

## Please contact us

Sacher Lasertechnik  
GmbH  
Hannah Arendt Str. 3-7  
D-35037 Marburg/Lahn  
Germany  
Tel.: +49 6421 305 - 0  
Fax: +49 6421 305299

Sacher Lasertechnik  
LLC  
5765 Equador Way  
Buena Park, CA90620  
U. S. A.  
Tel.: 1-800-352-3639  
Fax: 1-714-670-7662

Email: [contact@sacher.de](mailto:contact@sacher.de)  
Web: <http://www.sacher.de>

