

## B3000 PON Light Source



The Appointech B3000 handheld single-head stabilized light source has output wavelengths of FP 1310nm, and DFB 1490, 1550nm. The output power is highly stabilized by a proprietary circuit design. The operation is very user friendly. After turning on with the ON/OFF switch, 1310nm wavelength and its output power are shown on the LCD. The wavelength is selected by pressing the  $\lambda$ -key. The output power for each wavelength is preset at  $-3$  dBm, or at a customer-defined value. The output can be DC, or modulated at 270Hz, 1KHz, or 2KHz by pressing the Hz-key, which is also shown on the LCD. When in Auto-Off mode, as indicated by a power symbol with a cross on the LCD, the power will be shut off after about 10 minutes on-time for battery life, in case not in use for a prolonged time. To turn it back on, press the ON/OFF switch again. The auto-off feature can be disabled by pressing the Auto-Off key, as indicated by a power symbol without a cross. When the battery power is too low to assume proper operation, an empty battery symbol is shown on the LCD display. The included rechargeable battery works with a power adaptor of a USB connector, which is also included. When charging is in OFF-mode, the indicator LED will be on until charging has been completed.

### Features

- Single-head at wavelength FP 1310nm. and DFB 1490,1550 nm
- Ultra high output stability  $\pm 0.05$ dB
- High output power preset at  $-3$  dBm, or at customer-defined value
- Selectable CW, 270 Hz, 1KHz or 2KHz modulated output
- Small size, easy for field applications
- Light weight, less than 0.2Kg
- Auto power shut-off can be disabled
- Auto laser shut off at above  $60^{\circ}\text{C}$
- Rechargeable battery, Battery-full and Battery-low indicator

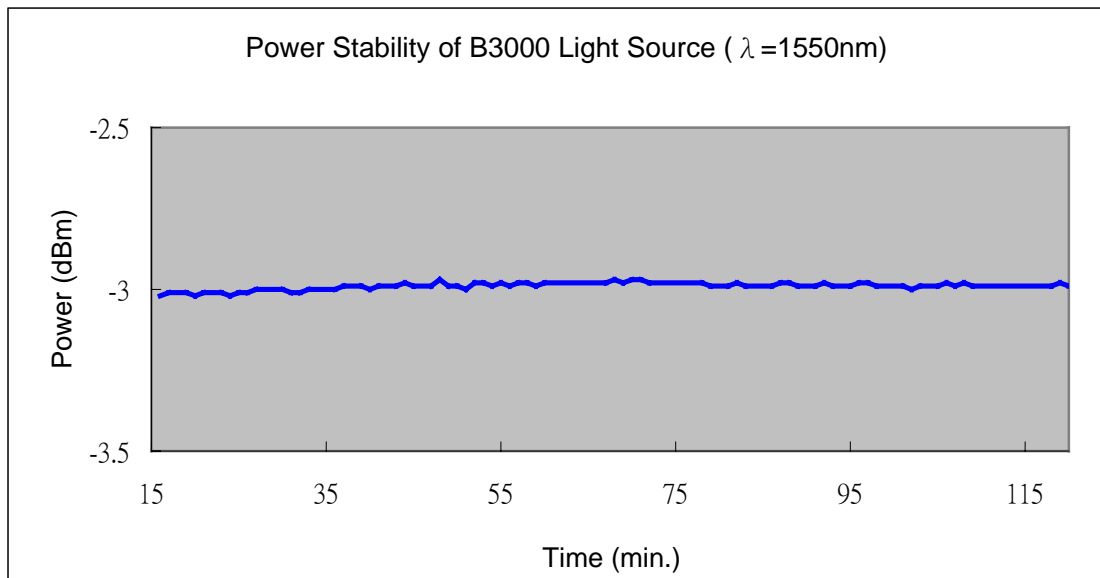
### Applications

- Component measurements
- Fiber network tests
- Transmission loss measurement
- Sensing systems
- Calibration of optical receivers
- Material analysis and laboratory research

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### Specifications

Wavelength Central Spectral Width	1310nm +/- 30nm, 1490 and 1550 nm +/- 10nm < 4 nm for 1310nm, <1nm for 1490 and 1550nm
Stability (1 hr)	±0.05dB
Power Output: (Into 9/125um Fiber)	-3dBm (or customer specified)
Power Output Uncertainty	0.5 dB
Functions	ON/OFF (Power switch) Hz (Modulated output mode) Auto shut off at 60°C Auto shut off after 10 minutes turn-on time Auto shut off disabled Low battery power indication
Modulation Frequencies	270Hz, 1kHz or 2kHz
Optical Connector Interface	FC or ST or SC, adapter for other connector available
Power	Rechargeable Lithium battery, works continuously for 8 hrs after 2-hrs full charge
Environmental: Operation Temp. Humidity Storage Temp. Humidity	-15°C to 50°C, 0-95% RH (non-condensing) -35°C to +70°C, 0-95% RH (non-condensing)
Dimensions (Length x Width x Height)	16x7x3 cm (measured without case)
Weight (w/ batteries)	<0.2Kg



**Standard Deviation=0.01dB**

### Ordering information

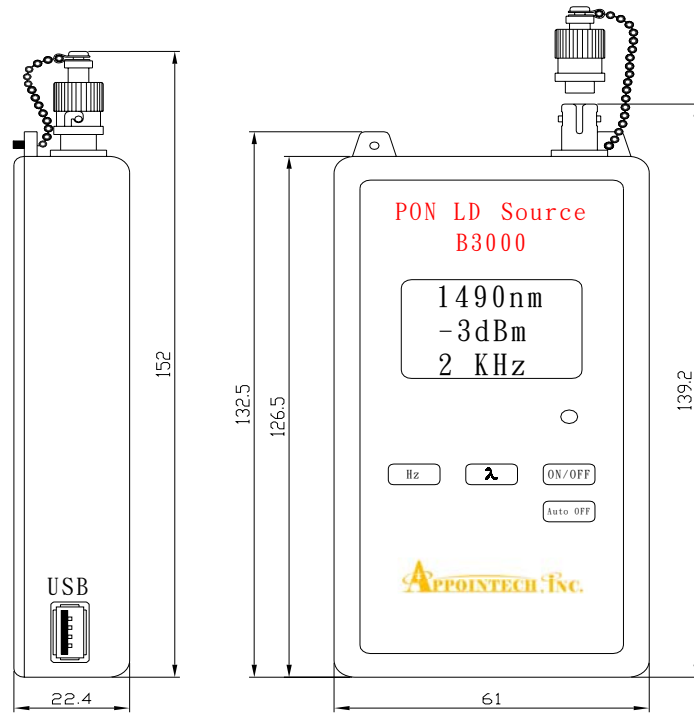
B 3000    — Output Power  
 e.g. - 3 for -3 dBm

Connector type  
 SC, FC, ST

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- Options:
- Standard Multi-units Carrying Case
  - Heavy-Duty Multi-units Carrying Case
  - Receptacle Converters

B3000 PON LD Source



Unit: mm

