

## SM High Power Series Supercontinuum White Light Source

Based on high repetition rate mode-locked laser, the SM High Power series operates above the megahertz with short pulse durations on the order of picoseconds. Ergonomic and functional these sources provide a high power stable broadband spectrum which can be easily combined with our filtering solutions to provide an convenient tunable laser. An optional pulse-picker can also be integrated in order to reduce the repetition rate of the laser.

### FEATURES

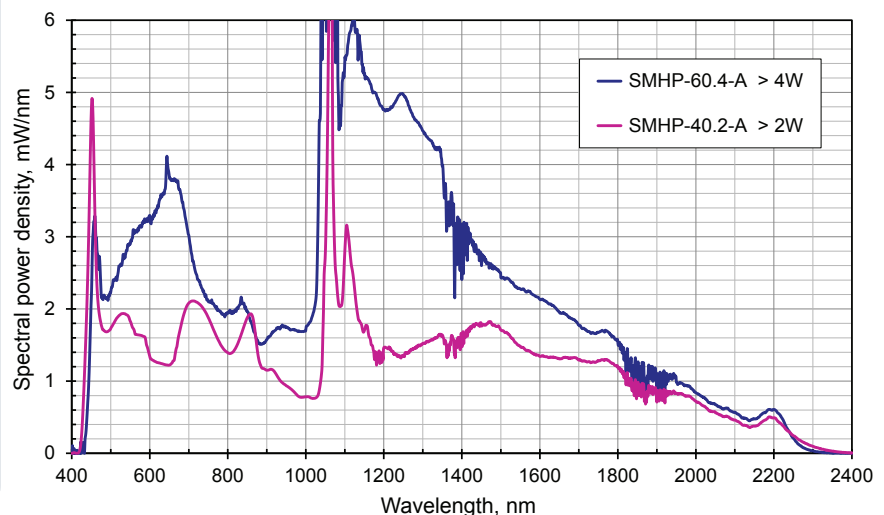
- From visible to NIR  
410 nm - 2400 nm
- Singlemode TEM00
- Megahertz repetition rate
- Pulse-picker option
- Total average power > 2 W
- Visible power > 300 mW
- Picosecond pulses
- Maintenance-free
- All fibered broadband source

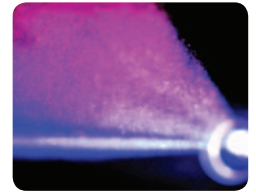
### APPLICATIONS

- Microscopy (FLIM, CLSM, STED...)
- Multiphoton fluorescence
- Materials characterization
- Spectroscopy
- Lifetime measurement
- Metrology, LIDAR
- High resolution imaging



**More than 300 mW  
in the visible**





# SM High Power Series

## Supercontinuum White Light Source

### SMHP-20.2 SMHP-40.4

Optical specifications	
Spectral bandwidth	min < 410 nm Max > 2300 nm
Total average power <sup>(1)</sup>	> 2 W      > 4 W
Visible average power <sup>(2)</sup>	> 300 mW      > 600 mW
Seed repetition rate	≥ 20 MHz      ≥ 40 MHz
Seed pulse width	~ 5 ps
Power stability <sup>(3)</sup>	+/- 1 %
Spatial mode	Singlemode TEM00
Polarization state	Unpolarized
Output connection	FC/APC Collimator (~ 1 meter armored cable)
Synchronization output	External output trigger BNC connector
Other specifications	
Control interface	Front panel display and USB
Dimensions	3U or 4U rack mountable 19"
Weight	< 20 kg
Power requirements	100-240V, 50/60Hz



#### Additional equipments

- 1 Collimated output  
Lens or achromatic broadband collimator
- 2 Fiber Assembly Unit  
Plug and play module allowing to couple with high transmission the laser into a FC/APC or FC/PC fiber.
- 3 Acousto-optic tunable filters  
AOTF for simultaneous tunable multiple wavelength selection.
- 4 Automated tunable filter  
From UV to 900 nm.
- 5 Tunable bandwidth filter  
Gaussian pattern
- 6 Bandwidth splitter  
Fibered or free-space output

- (1) Higher output power available upon request: 6W 60MHz  
 (2) Visible total average power bandwidth: 390-750 nm  
 (3) Typical value of long-term stability for total average power.

#### Bandwidth coverage:

Available spectral bandwidth:  
 min < 410 - Max > 2200 nm  
 min < 450 - Max > 2300 nm  
 min < 500 - Max > 2300 nm

★ **Pulse-Picker OPTION:**  
 Reduce the repetition of the laser

### Ordering information:

