

kW-class

N+1>1 combiners



ALPhA NOV

Optics & Lasers Technology Center

kW-class

N+1>1 combiners

ALPhANOV supplies both standard and custom-made high brightness combiners in the kWatt regime.



Custom-made high brightness combiners can be designed and made on-demand to meet a wide range of configurations with various input and output fibers.

Optical specifications

Signal operating wavelengths	1020 - 1100 nm
Pump operating wavelengths	800 - 1000 nm
Number of multimode inputs	6
Number of signal input	1

Transmission

Signal transmission	> 90 %	
Pump fiber transmission	NA = 0.15	NA = 0.2
	> 98%	> 94.5%
Power per multimode input	500 W	
Total power	3 kW	

Fibers

Signal input fibers (core/clad diameter)	10/125 μm NA = 0.08/0.46	
Pump input fiber (core/clad diameter)	NA = 0.15	NA = 0.2
	> 98%	> 94.5%
Output fiber (core/clad diameter)	500 W 3 kW	

Package dimension (in mm): 15 mm x 16 mm x 9 mm