

Lightel's pump combiners are available with modified packaging to combine several single-mode lasers into a multimode transmission fiber to achieve a laser power output in the range of several kilowatts to 10,000 watts. A visible light beam can be added to the output delivery fiber for guidance in the machining process.

Features

- High Coupling Efficiency
- Modified Packaging for High Power Delivery
- Stable and Reliable
- Custom Configurations Available

Applications

- High Power Fiber Lasers
- Industry Laser Processing



Specifications

Parameter	Specification			
Port Configuration	4x1	6x1	(4+1)x1	(6+1)x1
Laser Wavelength	1030nm ~ 1080 nm			
Laser Input Fiber (Note 3)	x/125 or 20/400			
Output Fiber	BD-S100/120/360-STN			
Laser Transmission Efficiency (Note 4)	>95%			
Total Power Handling	3,000W 5,000W 10,000W			
Pigtail	Standard 1m or custom			
Operating Temperature	0~75°C			
Storage Temperature	-40~85°C			

Note 1: Values are referenced without connectors.

Note 2: Other package dimensions and optical performances available by request.

Note 3: x specifies fiber core size.

Note 4: Fiber size and type dependent.

Ordering Information

H	P	C							
			Port Configuration	Pump Fiber	Signal Fiber	Output Fiber	Package Size(mm)	Special Code	
			4: 4x1	18: MM-S105/125-15A	04: HI1060 NA:0.14	41: LMA-GDF-20/130-M NA:0.08/0.46	8: 105x15x8 Box		
			6: (6+1)x1	19: MM-S105/125-22A	29: DCF-UN-10/125DC	47: Passive-25/250DC NA:0.07/0.46			
			B: (4+1)x1	20: MM-S200/220-22A	30: 10/125DC NA:0.08/0.46	49: LMA-GDF-20/400-M NA:0.06/0.46			
			E: 6x1		72: DCF-UN-8/105/125-14	72: DCF-UN-8/105/125-14			

Note: These are our most popular configurations. Contact Lightel Sales for custom port counts or alternative fibers.