



6 kW (N+1)x1 Laser Combiner Module (LCM Series)

Description

AFR's High Power Laser Combiner Module is designed for combining the power from N units of kW class fiber lasers and one aiming beam with high efficiency. Available in bare fiber or Dragon™ as the output of the module. Dragon™ is a high power laser cable with QBH compatible output connector.

Key Features

- Low Transmission Loss
- kW Level Backward Power Handling
- Beam Quality Optimized
- Indirect Water Cooling Ports Equipped

Applications

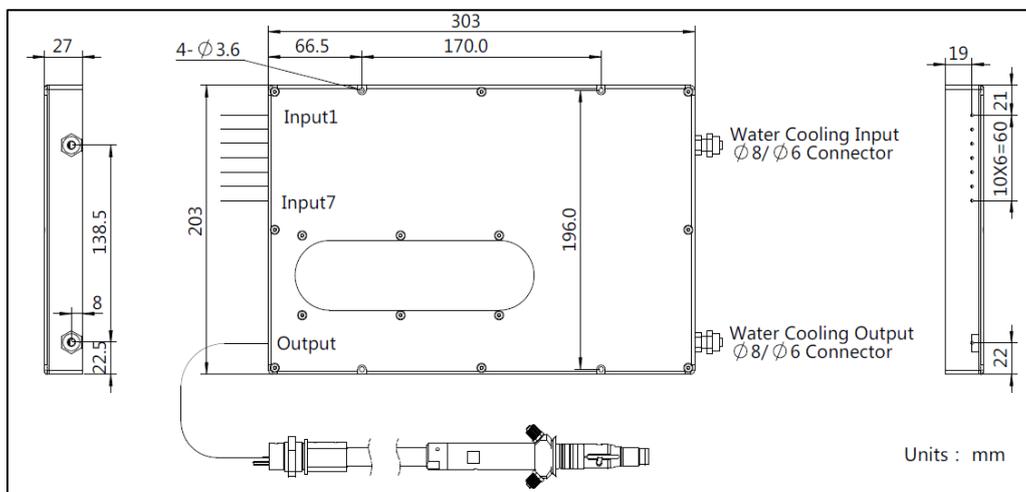
- Combined kW Class Fiber Lasers

Specifications

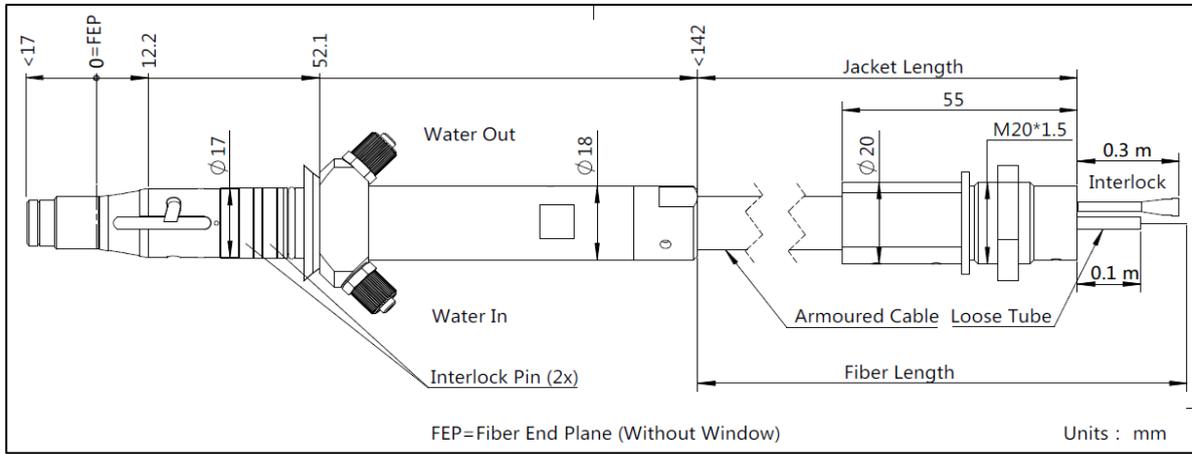
Parameters	Unit	Values
Product Type	-	(N+1)x1/Nx1
Operation Wavelength Range	nm	1060 - 1080
Input Fiber Type	-	LMA-GDF-14/250-M, LMA GDF 20/400-M
Red beam Fiber Type	-	HI 1060, LMA-GDF-10/125-M
Output Fiber Type	-	Nuferm BD-S100/120/360-STN, NA0.22
Max. Input Power Handling per Port	kW	2
Max. Backward Power	kW	1
Output Fiber Length ¹	m	2
Armor Cable Length	m	20
Min. Combining Efficiency	%	97
Typ. Combining Efficiency	%	98
Package Dimensions	mm	303 (L) x 203 (W) x 27 (H)

¹For Dragon™ output option, it is the fiber length between the combiner package and the armor cable.

Package Dimensions



Package dimensions of combiner



Package dimensions of Dragon™

Ordering Information

LCM-(N+1)x1- - - - -

N: Input Fiber Number : Input Fiber : Aiming Beam Input Fiber : Output Fiber
 2 - 2 Ports 1 - LMA GDF 14/250-M HI - HI 1060 100 - 100/360 NA = 0.22
 3 - 3 Ports 2 - LMA GDF 20/400-M 10 - LMA-GDF-10/125-M SSS - Specify
 6 - 6 Ports S - Specify SS - Specify
 S - Specify

: Max. Combining Power : Length of Input Fiber : Length of Output Fiber : Output Connector
 2 - 2.2 kW Q - 0.75 m 1 - 1 m 0- Bare Fiber
 3 - 3.3 kW 1 - 1 m 2 - 2 m 1- Dragon™
 6 - 6.6 kW S - Specify S - Specify
 S - Specify

: Length of Armor Cable : Window Option
 00 - No Dragon™ 0 - No Dragon™
 20 - 20 m W - With Window
 SS - Specify N - Without Window



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