



Professional Supplier of Laser Components

· Provider of Laser Devices & Integrated Solutions

Provider of Laser Devices & Integrated Solutions



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Optishine



Professional Supplier of Laser Components



Miniaturization

Innovative integrated design, compact size



High Reliability

Rigorous environmental testing, improved quality assurance system



Customization

Customized design to meet various application needs



Quick Response

Professional technical service team, fast delivery

Product Catalogue

HIGH POWER PULSED LASER APPLICATIONS

- | | |
|--------------------------------------|--------------------------|
| 1 20W In-Line Isolator | 2 50W In-Line Isolator |
| 3 60W Fiber to Free Space Isolator | 4 120W In-Line Isolator |
| 5 120W Fiber to Free Space Isolator | 6 500W In-Line Isolator |
| 7 2000W Fiber to Free Space Isolator | 8 2000W In-Line Isolator |

HIGH POWER CONTINUOUS LASER APPLICATIONS

- | | |
|---|-------------------------------------|
| 1 500W High Power Fiber Collimator | 2 1000W High Power Fiber Collimator |
| 3 (2+1)×1 Pump Combiner | 4 (6+1)×1 Pump Combiner |
| 5 High Power Fiber Bragg Grating | 6 Raman Fiber Grating |
| 7 High Power Fiber Bragg Grating | 8 Raman Fiber Grating |
| 9 Raman Fiber Grating + CPS Integration | 10 High Power Combiner with FBG |

ULTRAFAST FIBER LASER APPLICATIONS

- | | |
|---|---|
| 1 High Power PM Tap Isolator with Filter WDM and BP | 2 High Power Polarization Dependent Free Space Isolator |
| 3 (6+1)×1 Polarization Maintaining Pump Combiner | 4 SESAM |

APPLICATION OF SCIENTIFIC RESEARCH AND CUSTOMIZATION

- | | |
|---|---|
| 1 Polarization Maintaining Fiber Optic Circulator | 2 High Power Polarization Dependent Free Space Isolator |
| 3 Polarization Maintaining Tap Coupler | 4 Motorized Variable Optical Delay Line |
| 5 High Power Polarization Independent Isolator | 6 Polarization Maintaining Fiber Optic Circulator |
| 7 High Power Polarization Independent Circulator | |

AEROSPACE-GRADE APPLICATIONS

- | | |
|--|--|
| 1 High Power Polarization Maintaining Optical Circulator | 2 Polarization Maintaining Bandpass Filter |
| 3 Polarization Maintaining Filter-WDM | 4 Polarization Maintaining Isolator |
| 5 Polarization Maintaining Isolator-Filter-WDM / PMIWDM | 6 Polarization Maintaining Tap Isolator |
| 7 (6+1)×1 Pump Combiner | |

Company Profile



Optishine

Optishine was established in 2017, and it is a leading provider of laser components and over all solutions in the industry, specializing in the research and production of high-power and polarization maintaining fiber optic devices. It has production bases in Zhuhai, Shenzhen, Mianyang, and other places in China. At present, there are total of 600 employees and R&D team of over 100 people. Optishine has applied for over 200 patents and obtained 200 approvals. It has established a comprehensive intellectual property system.

Optishine has been awarded the titles of National High tech Enterprise, Guangdong Provincial specialized and Innovative Enterprise. Optishine has passed the ISO quality system certification. And it has established the "Guangdong fiber Laser Detection and 3D Imaging Engineering Technology Research Center" and "Guangdong Postdoctoral Innovation Practice Base". It has established industry university research cooperation bases with Jinan University, Southern University of Science and Technology, and others.

Manufacturing Premises

The company has 4,000 m² of office space, as well as clean workshops including 5,000 m² Class-10000, 2,000 m² Class-1000 and 1,000 m² Class-100.

Mass-Production Capacity

We are capable of design, R&D and volume manufacturing of full-range fiber-optic passive devices, including micro-optical devices, tapered fiber devices and fiber grating devices.

1

National level specialized and innovative 'little giant'

1

Guangdong fiber laser detection and 3D imaging engineering technology research center

1

Postdoctoral innovation practice base

10+

Doctoral research talents

100+

Research and technical talents

200+

Intellectual property

600+

Total Employees

10000 m²+

Clean workshop

Product Introduction

PRODUCT TYPE

- Fiber in-line isolator
- Fiber circulator
- Large clear aperture isolator
- QCS
- Special fiber patch cords
- Space output isolator
- High power WDM
- MFA
- Fiber combiner
- Multi in one functional device

Provide fiber optic passive devices at various power levels of 400-2000nm

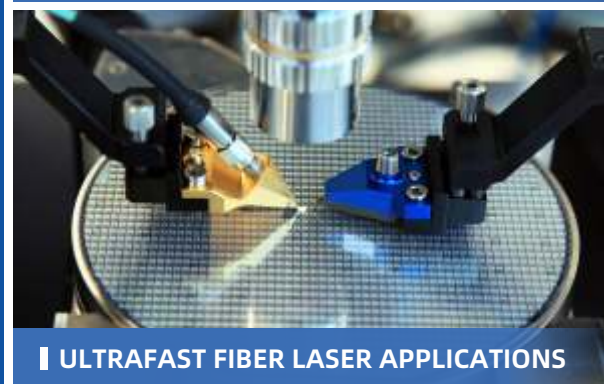
APPLICATION SCENARIOS



■ HIGH POWER PULSED LASER APPLICATIONS



■ HIGH POWER CONTINUOUS LASER APPLICATIONS



■ ULTRAFAST FIBER LASER APPLICATIONS



■ APPLICATION OF SCIENTIFIC RESEARCH AND CUSTOMIZATION



■ AEROSPACE-GRADE APPLICATIONS

HIGH POWER PULSED LASER APPLICATIONS

1 20W In-Line Isolator

Features

- Compact design
- Low cost
- Single/Double level optional
- Low insertion loss
- Fiber type optional



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Typ. Peak Isolation	dB	50
Min. Isolation, λ_c , 23 °C	dB	45
Typ. Insertion Loss, 23 °C	dB	0.8
Max. Insertion Loss, 23 °C	dB	1.0
Max. Polarization Dependent Loss	dB	0.2
Min. Return Loss	dB	50
Max. Average Optical Power	W	20
Max. Peak Power for ns pulse	kW	20
Max.TensileLoad N		5
FiberType		Specify
OperatingTemperature	°C	10 to +50
StorageTemperature	°C	0 to +60

HIGH POWER PULSED LASER APPLICATIONS

2 50W In-Line Isolator

Features

- High power handling
- Low cost
- Single/Double level optiona



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Min. Isolation, λ_c , 23 °C	dB	25
Max. Insertion Loss, 23 °C @50W	dB	0.8
Min. Return Loss (In/Out)	dB	50/50
Max. Average Optical Power	W	50
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Fiber Type		Specified by ordering info
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

HIGH POWER PULSED LASER APPLICATIONS

3 60W Fiber to Free Space Isolator

Features

- Low insertion loss
- High isolation degree
- High environmental stability



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Max. Insertion Loss at λ_c , 23°C	dB	0.4
Typ. Peak Isolation	dB	35
Min. Isolation at 30°C	dB	28
Min. Isolation at all temperature	dB	20
Min. Return Loss	dB	50
Nominal Output Beam Diameter (1/e ²)	mm	6.5 ± 0.5
Beam Circularity	%	> 90
M ² Degradation	%	< 10
Max. Average Optical Power	W	60
Max.Pulse Energy	mJ	2
Reverse Power Handling	W	3W Continuous 10W (3 min max)
Fiber Type (input port)	Specified by ordering info	
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

HIGH POWER PULSED LASER APPLICATIONS

4 120W In-Line Isolator

Features

- High power handling
- Optional dual-stage isolation
- Low insertion loss



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Min. Isolation, λ_c , 23 °C	dB	25
Max. Insertion Loss, 23 °C @100W	dB	0.8
Min. Return Loss (In/Out)	dB	50/50
Max. Average Optical Power	W	120
Max. Peak Power for ns pulse	kW	20
Max. Tensile Load	N	5
Fiber Type	Specified by ordering info	
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

HIGH POWER PULSED LASER APPLICATIONS

5 120W Fiber to Free Space Isolator

Features

- Single or dual level optional
- Good beam quality
- Beam Diameter/fiber type optional



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Max. Insertion Loss at λ_c , 23°C	dB	0.5
Typ. Peak Isolation	dB	52
Min. Isolation at 30°C	dB	45
Min. Isolation at all temperature	dB	40
Min. Return Loss	dB	50
Nominal Output Beam Diameter (1/e ²)	mm	6 ± 0.5 or Specify
Beam Circularity	%	> 90
M2 Degradation	%	< 10
Max. Average Optical Power	W	120
Max. Peak Power for ns pulse	kW	30
Reverse Power Handling	W	3W Continuous 10W (3 min max)
Fiber Type (input port)		Specified by ordering info
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

HIGH POWER PULSED LASER APPLICATIONS

6 500W In-Line Isolator

Features

- High isolation degree
- Low deterioration
- Single mode/multimode fiber optional



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	$\lambda_c \pm 10$
Typ. Peak Isolation	dB	32
Min. Isolation, λ_c , 23 °C	dB	28
Typ. Insertion Loss, 23 °C	dB	0.6
Max. Insertion Loss, 23 °C @ 1064 nm	dB	0.7
Max. Insertion Loss, 23 °C @ 650 nm	dB	8
Max. Polarization Dependent Loss	dB	0.2
Min. Return Loss (In / Out)	dB	50
Max. Average Optical Power	W	500
Max. Peak Power for ns pulse	kW	50
Fiber Type		Specified by ordering info
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

HIGH POWER PULSED LASER APPLICATIONS

7 2000W Fiber to Free Space Isolator

Features

- High transmittance
- Reverse full angle isolation
- Suppression of thermal lens effect
- Good beam quality
- Beam Diameter/fiber type optional



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Max. Insertion Loss, 23 °C, λ_c @1064 nm	dB	0.4
Max. Insertion Loss, 23 °C @ 650 nm	dB	7
Typ. Peak Isolation	dB	35
Min. Isolation at 30 °C	dB	28
Min. Isolation at all temperature	dB	20
Min. Return Loss	dB	50
Nominal Output Beam Diameter (1/e ²)	mm	7 ± 0.5 or 10 ± 0.5
Min. Beam Circularity	%	90
Max. M2 Degradation	%	10
Nominal Focal Shift of Thermal Lens	mm	≤5.0
Max. Average Optical Power	W	2000
Max. Peak Power for ns pulse	kW	50
Reverse Power Handling	W	5W Continuous
Reverse Power Handling	W	20W (3 min max)
Fiber Type (input port)		LMA-GDF-30/250-M fiber or Specify
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

HIGH POWER PULSED LASER APPLICATIONS

8 2000W In-Line Isolator

Features

- High transmittance
- Reverse full angle isolation
- Suppression of thermal lens effect
- Good beam quality
- Beam Diameter/Fiber type optional



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	$\lambda_c \pm 10$
Typ. Peak Isolation	dB	35
Min. Isolation, λ_c , 23 °C	dB	28
Typ. Insertion Loss, 23 °C	dB	0.4
Max. Insertion Loss, 23 °C @ 1064 nm	dB	0.6
Max. Insertion Loss, 23 °C @ 650 nm	dB	7
Max. Polarization Dependent Loss	dB	0.2
Min. Return Loss (In / Out)	dB	50
Max. Average Optical Power	W	2000
Max. Peak Power for ns pulse	kW	50
Fiber Type		Specified by ordering info
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

HIGH POWER CONTINUOUS LASER APPLICATIONS

1 500W High Power Fiber Collimator

Features

- 3-11mm Beam Diameter optional
- 100-500W power optional
- Good beam quality, stable and reliable



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	$\lambda_c \pm 20$
Min. Ellipticity	%	95
Max. Insertion Loss, 23 °C, λ_c @1064 nm	dB	0.3
Max. Insertion Loss, 23 °C @ 650 nm	dB	1.5
Beam Divergence (Far field)	mrad	< 0.5
Min. Return Loss	dB	50
Nominal Output Beam Diameter ($1/e^2$) @M2=1.5	mm	6 ± 0.5
Max. Average Optical Power (CW)	W	500
Max. Tensile Load	N	5
Fiber Type (input port)		as order
Operating Temperature	°C	5 to +40
Storage Temperature	°C	-40 to +85

HIGH POWER CONTINUOUS LASER APPLICATIONS

2 1000W High Power Fiber Collimator

Features

- 3-11mm Beam Diameter optional
- 100-500W power optional
- Good beam quality, stable and reliable



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	$\lambda_c \pm 20$
Min. Ellipticity	%	92
Beam Pointing Error	deg	< 1.0
Beam Divergence (Far field)	mrad	< 0.5
Min. Return Loss	dB	50
Nominal Output Beam Diameter ($1/e^2$)	mm	7.5 ± 0.5
Max. Average Optical Power (CW)	W	1000 or Specify
Max. Tensile Load	N	5
Fiber Type (input port)		LMA-GDF-10/130-M or LMA-GDF-14/250-HP-M
Operating Temperature	°C	5 to +40
Storage Temperature	°C	-40 to +85

HIGH POWER CONTINUOUS LASER APPLICATIONS

③ (2+1)×1 Pump Combiner

Features

- High pump efficiency
- Stable and reliable performance
- Provide customized configurations



SPECIFICATIONS

Parameter		Unit	Value
Signal direction			Forward or Backword
Pump Wavelength		nm	800~1000 (Typ. 915nm)
Signal Wavelength		nm	1030~1080 (Typ.1064nm)
Max.Insertion Loss (Signal Input to Output)		dB	0.3
Min.Pump Efficiency		%	98
Max.Pump Power Handling		W	800/Port
FiberType	Input		LMA-GDF-14/250
	Output		LMA-GDF-14/250
	Pump		MM-220/242 NA 0.22
Operating Temperature		℃	0 to +75
Storage Temperature		℃	-40 to +85

HIGH POWER CONTINUOUS LASER APPLICATIONS

④ (6+1)×1 Pump Combiner

Features

- High pump efficiency
- Stable and reliable performance
- Provide customized configurations



SPECIFICATIONS

Parameter		Unit	Value
Signal direction			Forward or Backword
Pump Wavelength		nm	800~1000 (Typ. 915nm)
Signal Wavelength		nm	1030~1080 (Typ.1064nm)
Max.Insertion Loss (Signal Input to Output)		dB	0.3
Min.Pump Efficiency		%	98
Max.Pump Power Handling		W	1000/Port
FiberType	Input		LMA-GDF-20/400
	Output		LMA-GDF-20/400
	Pump		MM-135/155 NA 0.22
Operating Temperature		℃	0 to +75
Storage Temperature		℃	-40 to +85

HIGH POWER CONTINUOUS LASER APPLICATIONS

5 High Power Fiber Bragg Grating (FBG Mirrors High Power)

Features

- High sensitivity
- Not affected by electromagnetic interference
- Good stability
- Small size



SPECIFICATIONS

Parameter	Unit	Value					
Port Configuration		1×1					
Signal Wavelength	nm	1018	1064	1070	1080		
3dB Bandwidth	nm	0.2~4					
Wavelength Matching for HR-OC	nm	0.2					
Fiber Type	um	X/125&130	X/250	X/400			
Signal Reflectivity		HR	OC	HR	OC	HR	OC
(Fundamental mode)	%	≥99.8%	3%~20%	≥99.5%	3%~20%	≥99.5%	3%~20%
Max Power Handling	W	500	2500	4500			
Max Signal Handling	W	300	1500	3000			
Pump transmittance	%	≥99%					
Package Dimension	mm	60x12x6.5mm or recoating					
Operating Temperature	℃	0~75℃/≤55%					
Storage Temperature	℃	-40~85℃/≤55%					

HIGH POWER CONTINUOUS LASER APPLICATIONS

6 Raman Fiber Grating(TFBG) (RSS FBG Mirrors)

Features

- High sensitivity
- Not affected by electromagnetic interference
- Good stability
- Small size



SPECIFICATIONS

Parameter	Unit	Value		
Port Configuration		1×1		
RSS Wavelength	nm	1123	1135	
3dB Bandwidth	nm	≥20		
Max. Insertion Loss	dB	0.2		
Fiber Core Dimension	um	14	20	25
Max Signal Power Handling	W	1500	3000	4000
Max. Core RSS Power Handling	W	20	30	40
Pump transmittance	%	≥99%		
Package Dimension	mm	60x12x6.5mm or recoating		
Operating Temperature	℃	0~75℃/≤55%		
Storage Temperature	℃	-40~85℃/≤55%		

HIGH POWER CONTINUOUS LASER APPLICATIONS

HIGH POWER CONTINUOUS LASER APPLICATIONS

7 High Power Fiber Bragg Grating (FBG Mirrors Special WL)

Features

- High sensitivity
- Not affected by electromagnetic interference
- Good stability
- Small size



SPECIFICATIONS

Parameter	Unit	Value					
Port Configuration		1×1					
Signal Wavelength	nm	1550	1927	1936	1940		
3dB Bandwidth	nm	0.1~4					
Wavelength Matching for HR-OC	nm	0.2					
Fiber Type	um	X/125&130		X/250		X/400	
Signal Reflectivity		HR	OC	HR	OC	HR	OC
(Fundamental mode)	%	≥99.8%	3%~20%	≥99.5%	3%~20%	≥99.5%	3%~20%
Max Power Handling	W	60	150	300			
Max Signal Handling	W	30	70	150			
Pump transmittance	%	≥99%					
Package Dimension	mm	60x12x6.5mm or recoating					
Operating Temperature	℃	0~75℃/≤55%					
Storage Temperature	℃	-40~85℃/≤55%					

8 Raman Fiber Grating(TFBG) (RSS FBG Mirrors)

Features

- High sensitivity
- Not affected by electromagnetic interference
- Good stability
- Small size



SPECIFICATIONS

Parameter	Unit	Value			
Port Configuration		1×1			
Signal Wavelength	nm	1018	1064	1070	1080
3dB Bandwidth	nm	0.1~2			
Fiber Type	um	X/125&130	X/250	X/400	
Signal Reflectivity		OC		OC	OC
(Fundamental mode)		3%~20%	3%~20%	3%~20%	
Max Signal Power Handling	W	300	1500	3000	
Max Stripping Power Handling	W	200	400	600	
Pump Power Attenuation	dB	≥20			
Package Dimension	mm	Φ3.5xL80 Glass Tube			
Operating Temperature	℃	0~75℃/≤55%			
Storage Temperature	℃	-40~85℃/≤55%			

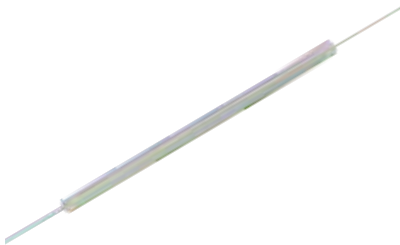
HIGH POWER CONTINUOUS LASER APPLICATIONS

HIGH POWER CONTINUOUS LASER APPLICATIONS

9 Raman Fiber Grating + CPS Integration

Features

- High transmission efficiency
- Integrated design
- Wide wavelength range
- Fiber type optional



SPECIFICATIONS

Parameter	Unit		Value		
Port Configuration			1×1		
Signal Wavelength	nm	1123		1135	
3dB Bandwidth	nm	≥20			
Max. Insertion Loss	dB	0.2			
Fiber Core Dimension	um	14	20	25	
Max Signal Power Handling	W	1500	3000	4000	
Max. Core RSS Power Handling	W	30	50	100	
Max Stripping Power Handling	W	400	600	800	
Pump Power Attenuation	dB	≥20			
Package Dimension	mm	Φ3.5xL100 Glass Tube			
Operating Temperature	°C	0~75°C/≤55%			
Storage Temperature	°C	-40~85°C/≤55%			

10 Fiber Grating + Combiner Integration

Features

- High transmission efficiency
- Integrated design
- Wide wavelength range
- Fiber type optional



SPECIFICATIONS

Parameter		Unit	Value								
Pump Wavelength		nm	800~1000nm								
Signal Wavelength		nm	650/1030~1090nm								
The Pump Fibers of Combiner		μm	105/125	135/155	135/155	200/220	220/242				
FBG Fiber Type		dB	14/250		20/400						
Another Signal Fiber of Combiner		dB	20/130		X/250 Y/400 (X=20/25/30 Y=20/25)						
Product Type			(6+1)x1/Nx1+HR OC+(6+1)x1 (6+1)x1/Nx1+HR OC+(6+1)x1 (6+1)x1/Nx1 HR OC (6+1)x1 (6+1)x1/Nx1 HR OC (6+1)x1								
Combiner	Pump Efficiency	mW	≥ 97%								
	Signal Insertion Loss		≤ 1.5dB		≤ 0.2dB	≤ 1.5dB		≤ 0.2dB			
FBG	Signal Reflectivity	kW	>99.5%		3%~20%	>99.5%		3%~20%			
	3dB Bandwidth		0.2~4nm								
	Wavelength Mismatch		≤ 0.2nm								
Max Pump Power Handling		N	2000W				4500W				
Max Signal Power Handling		°C	1000W				3000W				
Package Dimensions		°C	D5	recoat only	recoat only	D5	D5	D6	recoat only	recoat only	D6
Operating Temperature			0~75°C								
Storage Temperature			-40 to +85								

ULTRAFAST FIBER LASER APPLICATIONS

① High Power PM Tap Isolator with Filter WDM and BP

Features

- Integrated isolation/Splitting/Pumping/Band Pass (filter) four functions
- High isolation degree
- Low deterioration



SPECIFICATIONS

Parameter	Unit	Value			
Center Wavelength (λ_c)	nm	1030	1040	1053	1064
Min. Output Bandwidth @ -0.5 dB	nm	2	2	5	8 or 9
Max. Stop Bandwidth @ -25 dB	nm	12	12	18	20
Min. Extinction Ratio (Input to Output)	dB	18			
Min. Isolation, λ_c , 23°C (Output to Input)	dB	22	22	25	28
Max. Excess Loss, 23 °C	dB	5.5	4.7	4.2	3.7
Tap Ratio, 23 °C (Tap IL = -10*log(Tap Ratio) + E.L)	%	0.1 ± 0.05, 1 ± 0.2, 5 ± 1.0, 10 ± 2.0 or Specify			
Min. Isolation @ 980nm, 23°C (Input to Output)	dB	25			
Reflect Wavelength Range	nm	980 ± 10			
Max. Insertion Loss, 23 °C (Pump to Input)	dB	1			
Max. Insertion Loss for 6 to 10 μ m fiber only, 23 °C (Pump to Input)	dB	1.8			
Min. Directivity (Pump to Output) @980nm	dB	45			
Min. Extinction Ratio (For PM fiber)	dB	18			
Min. Isolation, λ_c , 23°C (Pump to Input)	dB	12			
Min. Return Loss	dB	50			
Max. Average Optical Power	W	0.3 0.4 0.5 1			
Max. Peak Power for ns pulse	kW	10			
Fiber Type		Input&Output&Tap: PM980 fiber or Specify Pump: PM980 or HI1060 or Specify			
Operating Temperature	°C	10 to +50			
Storage Temperature	°C	0 to +60			

ULTRAFAST FIBER LASER APPLICATIONS

② High Power Polarization Dependent Free Space Isolator

Features

- Wavelength 780-1100nm optional
- Optical aperture 3/5/8/10mm optional
- Power 30-100W optional
- High isolation degree
- Compact volume
- High damage threshold



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1030
Peak Isolation	dB	35
Min. Isolation, λ_c , 23 °C	dB	30
Min. Extinction Ratio	dB	25
Typ. Insertion Loss, λ_c , 23 °C	dB	0.3
Max. Insertion Loss, λ_c , 23 °C	dB	0.4
Polarization Rotation Angle, λ_c , 23 °C	deg	45 ± 2
Clear Aperture	mm	3/5
Max. Beam Diameter(100%)	mm	2.7/4.7
Max. Average Optical Power	W	100
Max. Peak Power Density	J/cm ²	5

ULTRAFAST FIBER LASER APPLICATIONS

③ (6+1)× 1Polarization Maintaining Pump Combiner

Features

- High pump efficiency
- High extinction ratio
- Stable and reliable performance
- Fiber type optional



SPECIFICATIONS

Parameter		Unit	Value
Signal direction			Backward
Pump Wavelength		nm	976
Signal Wavelength		nm	1030
Max.Insertion Loss (SignalInputto Output)		dB	0.5
Min.Pump Efficiency		%	93
Min.PER		dB	20
Max.Pump Power Handling		W	30
FiberType	Input		Nufern PLMA-GDF-20/130-M
	Output		Nufern PLMA-GDF-20/130-M
	Pump		MM-105/125 NA 0.22
Operating Temperature		℃	0 to +70
Storage Temperature		℃	-40 to +85

ULTRAFAST FIBER LASER APPLICATIONS

④ SESAM

Features

- Manual point switching
- Fiber type/Beam Diameter optional
- Reflection/transmission optional



SPECIFICATIONS

Parameter		Unit	Value			
Center Wavelength (λ_c)		nm	1030	1040	1064	1550
Operating Wavelength Range		nm	$\lambda_c \pm 15$			
Beam Spot size on SESAM Shiny Surface		μm	~ 12 or Specify			
Max. Excess Loss (Input - Input)		dB	1.0			
Min. Extinction Ratio (Input - Input)		dB	20			
Fiber Type			PM 980	PM 980	PM 980	PM 1550
Max. Optical Power		mW	300			
Max. Peak Power (ns Pulse Power)		kW	10			
Max. Tensile Load		N	5			
Operating Temperature		℃	-5 to +70			
Storage Temperature		℃	-40 to +85			

APPLICATION OF SCIENTIFIC RESEARCH AND CUSTOMIZATION

APPLICATION OF SCIENTIFIC RESEARCH AND CUSTOMIZATION

1 Polarization Maintaining Fiber Optic Circulator

Features

- High isolation degree
- Low insertion loss
- High extinction ratio
- Wavelength 400-2000nm optional



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	635
Operating Wavelength Range	nm	$\lambda_c \pm 5$
Typ. Insertion Loss	dB	1.5
Max. Insertion Loss, 23 °C	dB	1.7
Min. Isolation, 23 °C	dB	22
Min. Crosstalk (Port 1 to Port 3)	dB	45
Min. Return loss	dB	45
Max. Polarization Dependent Loss, 23 °C	dB	0.2
Max. Optical Power (Continuous Wave)	mW	100
Max. Tensile Load	N	5
Fiber Type		Nufern 630-HP
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to + 60

2 High Power Polarization Dependent Free Space Isolator

Features

- Wavelength 780-1100nm optional
- Optical aperture 3/5/8/10mm optional
- Power 30-100W optional
- High isolation degree
- Compact volume
- High damage threshold



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	850
Peak Isolation	dB	55
Min. Isolation, λ_c , 23 °C	dB	50
Min. Extinction Ratio	dB	25
Typ. Insertion Loss, λ_c , 23 °C	dB	0.4
Max. Insertion Loss, λ_c , 23 °C	dB	0.5
Clear Aperture	mm	3
Max. Beam Diameter(100%)	mm	2.7
Max. Average Optical Power	W	2, 5, 10, or 20
Max. Peak Power Density	J/cm ²	5

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③ Polarization Maintaining Tap Coupler

Features

- High extinction ratio
- Low deterioration
- High accuracy of splitting ratio



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	780 or 850
Operating Wavelength Range	nm	$\lambda_c \pm 10$
Max. Excess Loss, 23 °C	dB	1.2
Tap Ratio, 23 °C (Tap IL = $-10 \cdot \log(\text{Tap Ratio}) + \text{E.L.}$)	%	$1 \pm 0.5, 5 \pm 1.5, 10 \pm 2, 50$ or Specify
Min. Extinction Ratio	dB	18
Min. Return Loss	dB	50
Max. Optical Power	mW	300
Max. Tensile Load	N	5
Fiber Type		PM780-HP fiber or Specify
Operating Temperature	°C	0 to +70
Storage Temperature	°C	-40 to +85

④ Motorized Variable Optical Delay Line

Features

- Mobile scale visualization
- Small size and high precisio
- Small change rate of insertion loss
- Wide wavelength range



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064 or 1550
Operating Wavelength Range	nm	$\lambda_c \pm 30$
Optical Delay Range	ps	0-130 / 0-330 / 0-600 / 0-1000 / 0-2000
Optical Delay Resolution	ps	0.05
Max. Insertion Loss	dB	1.1
Max. Insertion Loss Variation	dB	0.3
Max. PDL	dB	0.1
Min. Extinction Ratio (for PM fiber only)	dB	18
Min. Return Loss	dB	50
Max. Average Optical Power	W	1
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Fiber Type		Specified by ordering info
Power Supply		DC 7~24V / 5A
Communication Interface		DB9 RS232
Operating Temperature	°C	0 to +50
Storage Temperature	°C	-20 to +60

APPLICATION OF SCIENTIFIC RESEARCH AND CUSTOMIZATION

APPLICATION OF SCIENTIFIC RESEARCH AND CUSTOMIZATION

5 High Power Polarization Independent Isolator

Features

- Low insertionloss
- High isolation degree
- High environmental stability
- Broadband support



SPECIFICATIONS

Parameter	Unit	Value			
Center Wavelength (λ_c)	nm	461	488	520	532
Max. Insertion Loss, 23 °C	dB	1.2	1.5	1.0	1.0
Typ. Peak Isolation	dB	25	23	25	28
Min. Isolation, λ_c , 23 °C	dB	22	20	22	25
Min. Return Loss	dB	50			
Max. Polarization Dependent Loss	dB	0.2			
Max. Average Optical Power	mW	500			
Max. Tensile Load	N	5			
Fiber Type		460-HP fiber			
Operating Temperature	°C	10 to +50			
Storage Temperature	°C	0 to +60			

6 Polarization Maintaining Fiber Optic Circulator

Features

- Low insertionloss
- High isolation degree
- High environmental stability
- Broadband Support



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength	nm	1550
Operating Wavelength Range	nm	$\lambda_c \pm 10$
Typ. Insertion Loss, λ_c , 23 °C	dB	0.8
Max. Insertion Loss	dB	1
Min. Isolation, P2-P1, 23 °C	dB	45
Min. Isolation, P2-P1, -40 °C to +60 °C	dB	35
Min. Extinction Ratio	dB	20
Min. Crosstalk	dB	55
Min. Return Loss	dB	70
Max. Optical Power	W	5
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Max. M2 Degradation		< 10%
Fiber Type		Nufern PLMA-GDF-25/300 fiber or Specify
Operating Temperature	°C	-40 to +60
Storage Temperature	°C	-40 to +85

APPLICATION OF SCIENTIFIC RESEARCH AND CUSTOMIZATION

APPLICATION OF SCIENTIFIC RESEARCH AND CUSTOMIZATION

7 High Power Polarization Independent Circulator

Features

- Low insertionloss
- High isolation degree and High extinction ratio
- Good stability and High environmental stability
- High Power Handling



SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength (λ_c)	nm	461	532
Typ. Insertion Loss, 23 °C	dB	1.0	0.8
Max. Insertion Loss, 23 °C	dB	1.4	1.2
Min. Isolation, 23 °C (P2 - P1)	dB	23	
Min. Isolation, 23 °C (P3 - P2)	dB	23	
Min. Crosstalk (P1 - P3)	dB	50	
Min. Return loss	dB	50	
Max. Polarization Dependent Loss, 23 °C	dB	0.15	
Max. Optical Power (Continuous Wave)	mW	500	
Max. Tensile Load	N	5	
Fiber Type		Nufern 460-HP	
Operating Temperature	°C	10 to +50	
Storage Temperature	°C	0 to + 60	

1 High Power Polarization Maintaining Optical Circulator

Features

- High power handling
- High isolation degree and High extinction ratio
- Low insertion loss
- Fiber type optional



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1550
Operating Wavelength Range	nm	$\lambda_c \pm 10$
Max. Insertion Loss	dB	0.8
Min. Isolation, P2-P1, 23 °C	dB	40
Min. Isolation, P3-P2, 23 °C	dB	40
Min. Crosstalk	dB	65
Min. Return Loss	dB	55
Max. Optical Power	W	10
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Fiber Type		Corning ClearCurve ZBL fiber
Operating Temperature	°C	0 to +70
Storage Temperature	°C	-40 to +85

AEROSPACE-GRADE APPLICATIONS

② Polarization Maintaining Bandpass Filter

Features

- Low loss, high efficiency
- Precise filtering, zero crosstalk
- High extinction ratio, stable performance
- High damage threshold



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength	nm	1540 ~ 1560
Min. Pass Bandwidth @ -0.5 dB	nm	1
Max. Insertion Loss	dB	0.6
Min. Isolation	dB	22
Min. Return Loss	dB	50
Min. Extinction Ratio	dB	20
Max. Optical Power	W	1
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Fiber Type		PM1550 fiber
Operating Temperature	°C	-40 to +70
Storage Temperature	°C	-40 to +85

AEROSPACE-GRADE APPLICATIONS

③ Polarization Maintaining Filter Wavelength Division Multiplexer

Features

- Low Mux/Demux loss
- High channel isolation
- Polarization and environmental stability
- High power compatibility



SPECIFICATIONS

Parameter	Unit	Value
Pass Band		
Wavelength Range	nm	1540.5 ± 1 or 1563 ± 1
Max. Insertion Loss	dB	0.7
Max. Ripple	dB	0.2
Min. Isolation	dB	25
Reflection Band		
Wavelength Range		1563 ± 1 or 1540.5 ± 1
Max. Insertion Loss	dB	0.6
Min. Isolation	dB	13
Min. Return Loss	dB	50
Min. Extinction Ratio	dB	20
Max. Optical Power	W	1
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Fiber Type		PM1550 fiber
Operating Temperature	°C	0 to +70
Storage Temperature	°C	-40 to +85

AEROSPACE-GRADE APPLICATIONS

4 Polarization Maintaining Isolator

Features

- Low forward insertion loss
- High reverse isolation
- Vibration and thermal resistance, stable polarization
- High power handling



SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength (λ_c)	nm	1550	
Operating Wavelength Range	nm	$\lambda_c \pm 20$	
Typ. Insertion Loss, λ_c nm, 23 °C	dB	0.5	0.6
Max. Insertion Loss, $\lambda_c \pm 20$ nm	dB	0.7	0.8
Typ. Peak Isolation	dB	32	50
Min. Isolation, $\lambda_c \pm 20$ nm, 23 °C, all polarization states	dB	25	43
Min. Extinction Ratio	dB	22	
Min. Return Loss	dB	50	
Max. Optical Power	W	6	
Max. Peak Power for ns pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type		PM1550 or Specify	
Operating Temperature	°C	-40 to +70	
Storage Temperature	°C	-40 to +85	

AEROSPACE-GRADE APPLICATIONS

5 Polarization Maintaining Filter Wavelength Division Multiplexer

Features

- Integrated design, low loss
- Dual isolation, anti-interference
- Compact structure, high stability
- High power adaptability



SPECIFICATIONS

Parameter	Unit	Value	
Pass Wavelength (λ_c)	nm	1540	
Operating Wavelength Range	nm	± 1	
Max. Insertion Loss, 23 °C (for SMF-28)	dB	0.8	0.8
Min. Extinction Ratio, 23 °C	dB	20	20
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	22	38.0
Min. Filter Passband Isolation	dB	25	
Reflect wavelength Range	nm	1560	
Max. Pump Port Insertion Loss, 23 °C (Pump to Input)	dB	0.6	0.6
Min. Extinction Ratio, 23 °C	dB	18	
Min. Isolation	dB	12	
Min. Return Loss	dB	50	
Max. Optical Power	W	1	
Max. Peak Power for ns pulse	kW	5	
Max. Tensile Load	N	5	
Fiber Type		PM1550 or Specify	
Operating Temperature	°C	-40 to +70	
Storage Temperature	°C	-40 to +85	

AEROSPACE-GRADE APPLICATIONS

6 Polarization Maintaining Tap Isolator

Features

- Uniform splitting, low loss
- Excellent isolation, accurate monitoring
- Integrated functions, stable operation



SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1550
Operating Wavelength Range	nm	$\lambda_c \pm 15$
Max. Excess Loss	dB	0.9
Tap Ratio	%	$0.01 \pm 0.005, 0.1 \pm 0.05, 1 \pm 0.2, 2 \pm 0.5, 10 \pm 2.0$
Typ. Peak Isolation	dB	55
Min. Isolation, $\lambda_c \pm 15$ nm, 23 °C, all polarization states	dB	45
Min. Isolation, $\lambda_c \pm 15$ nm, -40 to +70 °C, all polarization states	dB	30
Min. Extinction Ratio	dB	20
Directivity	dB	50
Min. Return Loss	dB	50
Max. Optical Power	W	6
Max. Reverse Power Handling	mW	300
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Fiber Type		PM 1550 Panda fiber
Operating Temperature	°C	-40 to +70
Storage Temperature	°C	-40 to +85

AEROSPACE-GRADE APPLICATIONS

7 (6+1)×1 Pump Combiner (MPC)

Features

- High pump efficiency
- Stable and reliable performance
- Provide customized configurations

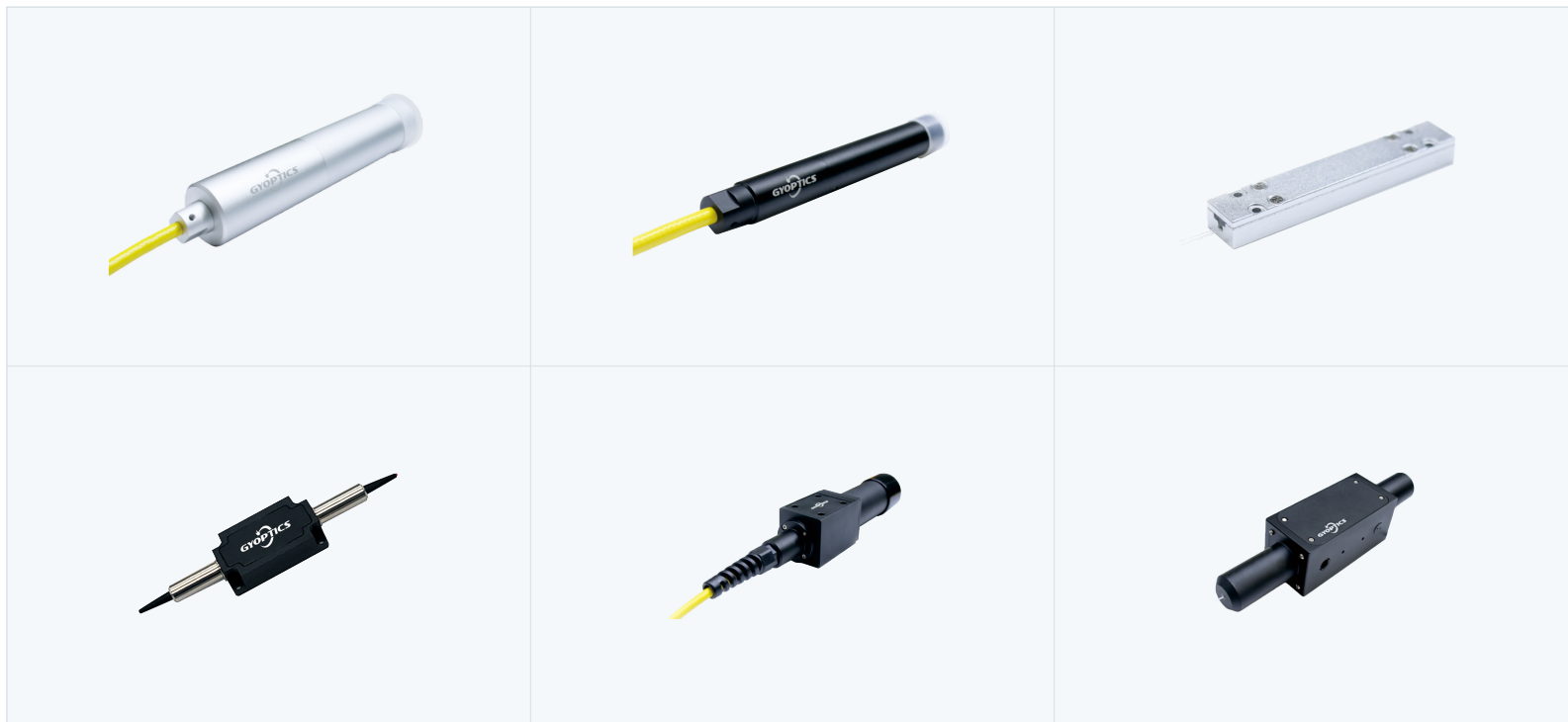


SPECIFICATIONS

Parameter	Unit	Value
Signal Direction		Forward or Backword
Pump Wavelength	nm	940nm
Signal Wavelength	nm	1550nm
Max.Insertion Loss (Signal Input to Output)	dB	0.8
Min.Pump Efficiency	%	93
Max.Pump Power Handling	W	3×20W
Min.PER	dB	18
Fiber Type	Signal Input	IXF-2CF-PAS-PM-12-130-0.17-RAD
	Output	IXF-2CF-PAS-PM-12-130-0.17-RAD
	Pump	MM-105/125 NA 0.22
Operating Temperature	°C	0 to +65
Storage Temperature	°C	-40 to +85

Optishine 2026 Product Specification Supplement

Structured SPEC, Package Dimensions and Ordering Information tables for laser components. Each product page includes the available product image and configuration details.



19 manufacturer product pages. Source data obtained September 2026.

1. 500W QCS

Source: manufacturer product page. Structured for Optishine.



Wavelength	1064 nm
Wavelength range	lambda c +/- 20 nm
Optical power	500 or Specify W
Fiber type	LMA-GDF-10/130-M or LMA-GDF-14/250-HP-M
Package dimensions	190 / 176 / 24 / 0 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1064
Operating Wavelength Range	nm	lambda c +/- 20
Min. Ellipticity	%	92
Beam Pointing Error	deg	<1.0
Beam Divergence (Farfield)	mrad	<0.5
Min. Return Loss	dB	50
Nominal Output Beam Diameter (1/e 2)	mm	7.5+/- 0.5
Max. Average Optical Power (Cw)	W	500 or Specify
Max. Tensile Load	N	5
Fiber Type (input port)		LMA-GDF-10/130-M or LMA-GDF-14/250-HP-M
Operating Temperature	deg C	5 to +40
Storage Temperature	deg C	-40 to +85

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	190 / 176 / 24 / 0 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	06-1064 nm, SS-Specify
Beam Diameter(1/e 2)	6 - 6 mm, S -Specify
Handling Power	500-500 W,SSS -Specify
Jacket Type	6 - 6 mm Armoured cable, 9 - 9 mm Armoured cable, 10 - 10 mm Armoured cable, S - Specify
Jacket Length	2 - 2.0 m, 3 - 3.0 m, S - Specify
Fiber Length	3 - 3.0 m, 4 - 4.0 m, S - Specify

2. 200W QCS

Source: manufacturer product page. Structured for Optishine.



Wavelength	1064 nm
Wavelength range	lambda c +/- 20 nm
Insertion loss	0.3 dB
Optical power	200 W
Fiber type	as order
Package dimensions	120 / 14 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1064
Operating Wavelength Range	nm	lambda c +/- 20
Min. Ellipticity	%	95
Max. Insertion Loss, 23 °C, lambda c @ 1064 nm	dB	0.3
Max. Insertion Loss, 23 °C @ 650 nm	dB	1.5
Beam Divergence (Far field)	mrad	<0.5
Min. Return Loss	dB	50
Nominal Output Beam Diameter (1/e?) @M 2=1.5	mm	6 +/- 0.5
Max. Average Optical Power (Cw)	W	200
Max. Tensile Load	N	5
Fiber Type (input port)		as order
Operating Temperature	deg C	5 to +40

Parameter	Unit	Value
Storage Temperature	deg C	-40 to +85

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	120 / 14 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	03 - 1030 nm, 06 - 1064 nm, SS - Specify
Jacket Type	10 - 10 mm Armoured cable, SS - Specify
Jacket Length	2-2.0 m, 3-3.0 m, 4-4.0 m, 5-5.0 m, SS-Specify
Fiber Length	3-3.0 m, 4-4.0 m, 5-5.0 m, 6-6.0 m, SS-Specify

3. (2+1)x1 Pump Combiner

Source: manufacturer product page. Structured for Optishine.



Fiber type	LMA-GDF-10/125
Package dimensions	100 / 15 / 1 mm

SPEC

Parameter	Unit	Value
Signal direction		Forward or Backword
Pump Wavelength	nm	800~1000 (Typ. 915 nm)
Signal Wavelength	nm	1030~1080 (Typ.1064 nm)
Max.Insertion Loss (Signal Input to Output)	dB	0.3
Min.Pump Efficiency	%	98
Max.Pump Power Handling	W	300/Port
Input		LMA-GDF-10/125
Fiber Type Output		LMA-GDF-10/125
Pump		MM-105/125 NA 0.22
Operating Temperature	deg C	0 to +75
Storage Temperature	deg C	-40 to +85

Package Dimensions

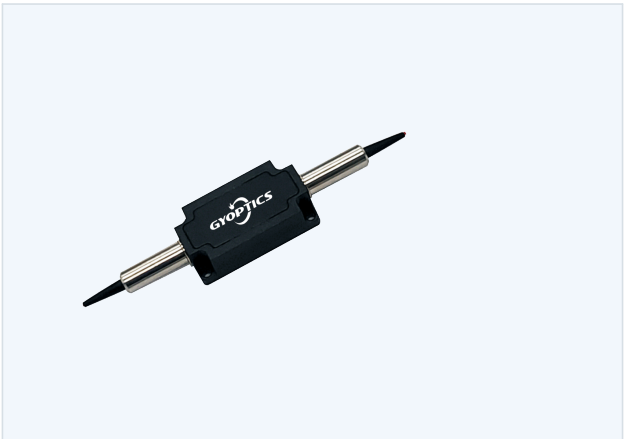
Parameter	Value
Units	mm
Dimension callouts shown	100 / 15 / 1 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Pump Wavelength	915 - 915 nm, 976 - 976 nm, SSS -Specify
Signal Wavelength	1064 - 1064 nm, SSSS - Specify
Fiber Typefor Pump	105 - 105/125 NA 0.22 ,135 - 135/155 NA 0.22 ,SSS - Specify
Fiber Type for Input	10 -LMA - GDF-10/125, SS -Specify
Fiber Type for Output	10 - LMA - GDF - 10/125, 25 -LMA - GDF - 25/250, 30 - LMA - GDF - 30/250, SS - Specify
Fiber Lengthfor Pump	1 - 1.0 m, S - Specify
Fiber Length for Input	1 - 1.0 m, S - Specify
Fiber Length for Output	1 - 1.0 m, S - Specify

4. 20W In-Line Isolator

Source: manufacturer product page. Structured for Optishine.



Wavelength	1064 nm
Peak isolation	50 dB
Insertion loss	1.0 dB
Optical power	20 W
Fiber type	Specify
Package dimensions	126 / 88 / 82 / 23 / 76 / 20 / 3 / 6 / 4 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1064
Typ. Peak Isolation	dB	50
Min. Isolation, lambda c, 23 °C	dB	45
Typ. Insertion Loss, 23 °C	dB	0.8
Max. Insertion Loss, 23 °C	dB	1.0
Max. Polarization Dependent Loss	dB	0.2
Min. Return Loss	dB	50
Max. Average Optical Power	W	20
Max. Peak Power for ns pulse	kW	20
Max. Tensile Load N		5
Fiber Type		Specify
Operating Temperature	deg C	10 to+50

Parameter	Unit	Value
Storage Temperature	deg C	0 to +60

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	126 / 88 / 82 / 23 / 76 / 20 / 3 / 6 / 4 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	06- 1064 nm, SS - Specify
Handling Power	05 - 5 W, 20 - 20 W, SS - Specify
Connector Type	1 - FC/UPC, 2 - FC/APC, N - None, S - Specify
Fiber Jacket	B - Bare fiber, L - 900 um loose tube, S - Specify
Fiber Length	1 - 1.0 m, S - Specify
Fiber Type	1 - HI 1060 fiber, 2 - Nufern FUD-3584 fiber, S - Specify

5. 120W Fiber to Free Space Isolator

Source: manufacturer product page. Structured for Optishine.



Wavelength	1064 nm
Insertion loss	0.5 dB
Peak isolation	52 dB
Fiber type	Specified by ordering info
Package dimensions	42 / 180 / 146 / 60 / 5 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1064
Max. Insertion Loss at lambda c, 23°deg C	dB	0.5
Typ. Peak Isolation	dB	52
Min. Isolation at 30°c	dB	45
Min. Isolation at all temperature	dB	40
Min. Return Loss	dB	50
Nominal Output Beam Diameter(1/e 2)	mm	6 +/- 0.5 or Specify
Beam Circularity	%	> 90
M 2 Degradation	%	<10
Max.Average Optical Power	W	120
Max. Peak Power for ns pulse	kW	30
Reverse Power Handling	W	3 W Continuous / 10 w (3 min max)

Parameter	Unit	Value
Fiber Type (input port)		Specified by ordering info
Operating Temperature	deg C	10 to +50
Storage Temperature	deg C	0 to +60

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	42 / 180 / 146 / 60 / 5 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	06-1064 nm,SS-Specify
Handling Power	70-70 W,120-120 W,S-Specify
Beam Diameter	7-7+/- 0.5 mm,S-Specify
Jacket Type	6-6 mm Armouredcable,S-Specify
Jacket Length	2-2.0 m,3-3.0 m,4-4.0 m,5-5.0 m,S-Specify
Fiber Length	3-3.0 m,4-4.0 m,5-5.0 m,6-6.0 m,S-Specify
Fiber Type	1-LMA-GDF-25/250,2-LMA-GDF-30/250,S-Specify

6. 300W High Power Isolator

Source: manufacturer product page. Structured for Optishine.



Wavelength	1064 nm
Wavelength range	lambda c+/- 10 nm
Peak isolation	32 dB
Insertion loss	0.7 dB
Optical power	300 W
Fiber type	Specified by ordering info

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1064
Operating Wavelength Range	nm	lambda c+/- 10
Typ. Peak Isolation	dB	32
Min. Isolation, lambda c, 23 °C	dB	28
Typ. Insertion Loss, 23 °C	dB	0.6
Max. Insertion Loss, 23 °C @ 1064 nm	dB	0.7
Max. Insertion Loss, 23 °C @ 650 nm	dB	8
Max. Polarization Dependent Loss	dB	0.2
Min. Return Loss (In / Out)	dB	50
Max. Average Optical Power	W	300
Max. Peak Power for ns pulse	kW	50
Fiber Type		Specified by ordering info

Parameter	Unit	Value
Operating Temperature	deg C	10 to+50
Storage Temperature	deg C	0 to +60

Package Dimensions

Parameter	Value
Units	mm
General tolerance	X.X +/- 1 mm
Dimension callouts shown	112 / 50 / 70 / 60 / 4 / 5 / 1 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	06-1064 nm,SS-Specify
Handing Power	300-300 W,S-Specify
Fiber Length	1 - 1.0 m, 2-2.0 m,S -Specify
Fiber Typefor In	1 -LMA-GDF-25/250 fiber,S-Specify
Fiber Type for Out	1 -LMA-GDF-30/250 fiber,S-Specify

7. 500W High Power Fiber Collimator

Source: manufacturer product page. Structured for Optishine.



Wavelength	1064 nm
Insertion loss	0.4 dB
Peak isolation	35 dB
Optical power	500 W
Fiber type	LMA-GDF-30/250-M fiber or Specify
Package dimensions	59 / 55 / 4 / 277 / 130 / 87 / 70 / 5 / 35 / 0 / 1 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1064
Max. Insertion Loss, 23 °C, lambda c @ 1064 nm	dB	0.4
Max. Insertion Loss, 23 °C @ 650 nm	dB	7
Typ. Peak Isolation	dB	35
Min. Isolation at 30 °deg C	dB	28
Min. Isolation at all temperature	dB	20
Min. Return Loss	dB	50
Nominal Output Beam Diameter (1/e 2)	mm	7 +/- 0.5 or 10 +/- 0.5
Min. Beam Circularity	%	90
Max. M 2 Degradation	%	10
Nominal Focal Shift of Thermal Lens	mm	<=5.0
Max. Average Optical Power	W	500

Parameter	Unit	Value
Max. Peak Power for ns pulse	kW	50
Reverse Power Handling	W	5 w Continuous
Reverse Power Handling	W	20 w (3 min max)
Fiber Type (input port)		LMA-GDF-30/250-M fiber or Specify
Operating Temperature	deg C	10 to+50

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	59 / 55 / 4 / 277 / 130 / 87 / 70 / 5 / 35 / 0 / 1 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	06 - 1064 nm, S - Specify
Handling Power	500-500 W,S-Specify
Beam Diameter	7 - 7 +/- 0.5 mm, 10 - 10 +/- 0.5 mm, S - Specify
Jacket Type	10 - 10 mm Armoured cable, S - Specify
Jacket Length	2 - 2.0 m, 3 - 3.0 m, 4 -4.0 m, 5 - 5.0 m, S - Specify
Fiber Length	3 - 3.0 m, 4 - 4.0 m, 5 - 5.0 m, 6 -6.0 m, S - Specify
Fiber Type	1 -LMA-GDF-30/250-M, S-Specify

8. (6+1)x1 Pump Combiner

Source: manufacturer product page. Structured for Optishine.



Fiber type	LMA-GDF-20/400
Package dimensions	120 / 80 / 100 / 150 / 0.35 / 0 mm

SPEC

Parameter	Unit	Value
Signal direction		Forward or Backword
Pump Wavelength	nm	800~1000 (Typ. 915 nm)
Signal Wavelength	nm	1030~1080 (Typ.1064 nm)
Max.Insertion Loss (Signal Input to Output)	dB	0.3
Min.Pump Efficiency	%	98
Max.Pump Power Handling	W	1000/Port
Input		LMA-GDF-20/400
Fiber Type Output		LMA-GDF-20/400
Pump		MM-135/155 NA 0.22
Operating Temperature	Do	0 to +75
Storage Temperature	deg C	-40 to +85

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	120 / 80 / 100 / 150 / 0.35 / 0 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Pump Wavelength	915 - 915 nm, 976 - 976 nm, SSS - Specify
Signal Wavelength	1030 -1030 nm,1064 - 1064 nm, SSSS - Specify
Fiber Typefor Pump	22 -200/220 NA 0.22, 220/242 NA 0.22, SSS -Specify
Fiber Type for Output	20 -PM 20/400,25-PM 25/400,30-PM 30/400,SS-Specify
Fiber Lengthfor Pump	1 - 1.0 m, S - Specify
Fiber Lengthfor Input	1 - 1.0 m, S - Specify
Fiber Lengthfor Output	1 - 1.0 m, S - Specify

9. High Power PM Tap Isolator with Filter WDM and BP

Source: manufacturer product page. Structured for Optishine.



Wavelength	1030 1040 / 1053 / 1064 nm
Insertion loss	1 dB
Optical power	0.30.40.51 W
Fiber type	Input&Output&Tap: PM 980 fiber or Specify / Pump:PM 980 or HI 1060 or Specify
Package dimensions	05.5 / 0 / 38 / 58 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1030 1040 / 1053 / 1064
Min. Output Bandwidth @ -0.5 dB	nm	2 2 / 5 / 8 or 9
Max. Stop Bandwidth @ -25 dB	nm	12 12 / 18 / 20
Min. Extinction Ratio (Input to Output)	dB	18
Min. Isolation, lambda c, 23 C (Output to Input)	dB	22 22 / 25 / 28
Max. Excess Loss, 23 °deg C	dB	5.5 4.7 / 4.2 / 3.7
Tap Ratio, 23 °C (Tap IL = -10*log(Tap Ratio) + E.L)	%	0.1 +/-0.05, 1 +/- 0.2, 5 +/- 1.0, 10+/- 2.0 or Specify
Min. Isolation @ 980 nm, 23°deg C (Input to Output)	dB	25
Reflect Wavelength Range	nm	980+/- 10
Max. Insertion Loss, 23 °deg C (Pump to Input)	dB	1
Max. Insertion Loss for 6 to 10 um fiber only, 23 °C (Pump to Input)	dB	1.8
Min. Directivity (Pump to Output) @980 nm	dB	45

Parameter	Unit	Value
Min. Extinction Ratio (For PM fiber)	dB	18
Min. Isolation, lambda c, 23°deg C (Pump to Input)	dB	12
Min. Return Loss	dB	50
Max. Average Optical Power	W	0.30.40.51
Max. Peak Power for ns pulse	kW	10
Fiber Type		Input&Output&Tap: PM 980 fiber or Specify / Pump:PM 980 or HI 1060 or Specify
Operating Temperature	deg C	10 to +50
Storage Temperature	deg C	0 to +60

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	05.5 / 0 / 38 / 58 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	0398-1030 Pass/980 Reflect,0598-1053 Pass/980 Reflect,0698-1064 Pass/980 Reflect
Pass Bandwidth	0.5-0.5 nm,2-2 nm,5-5 nm,8-8 nm,14-14 nm,22-22 nm,SS-Specify
Stage	1 - Single stage, 2-Dual stage
Tap Ratio	0.1-0.1/99.9,01-01/99,05-05/95,10-10/90,SS-Specify
Connector Type	1-FC/UPC,2-FC/APC,N-None,S-Specify
Jacket Type	B-Barefiber,L-900 umloosetube,S-Specify
Fiber Typefor I/O	1-PM 980,2-FUD-3460,S-Specify
Fiber Typefor T/P	1-PM 980,2-FUD-3460,3-HI 1060,4-FUD-3584,S-Specify

Option	Values
Fiber Length	1 -1.0 m,S-Specify

10. Free Space Isolator

Source: manufacturer product page. Structured for Optishine.



Wavelength	1030 nm
Insertion loss	0.4 dB
Optical power	100 W
Package dimensions	90 / 48 / 5 / 2 / 6 / 63 / 60 / 50 / 6.5 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1030
Peak Isolation	dB	35
Min. Isolation, lambda c, 23 C	dB	30
Min. Extinction Ratio	dB	25
Typ. Insertion Loss, lambda c, 23 C	dB	0.3
Max. Insertion Loss, lambda c, 23 C	dB	0.4
Polarization Rotation Angle	deg	45 +/- 2
Clear Aperture	mm	3 / 5
Max. Beam Diameter (100%)	mm	2.7 / 4.7
Max. Average Optical Power	W	100
Max. Peak Power Density	J/cm2	5

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	90 / 48 / 5 / 2 / 6 / 63 / 60 / 50 / 6.5 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	06-1064 nm,SS-Specify
Power Handling	10-10 W,20-20 W,30-30 W,50-50 W,SS-Specify
Clear Aperture	3 - Φ 3.0 mm, 5- Φ 5.0 mm,S-Specify

11. (6+1)x1 Polarization Maintaining Pump Combiner

Source: manufacturer product page. Structured for Optishine.



Fiber type	Nufern PLMA-GDF-20/130-M
Package dimensions	1.0 mm

SPEC

Parameter	Unit	Value
Signal direction		Backward
Pump Wavelength	nm	976
Signal Wavelength	nm	1030
Max.Insertion Loss (SignalInputto Output)	dB	0.5
Min.Pump Efficiency	%	93
Min.PER	dB	20
Max.Pump Power Handling	W	30
Input		Nufern PLMA-GDF-20/130-M
Fiber Type Output		Nufern PLMA-GDF-20/130-M
Pump		MM-105/125 NA 0.22
Operating Temperature	deg C	0 to +70
Storage Temperature	deg C	-40 to +85

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	1.0 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Pump Wavelength	915-915 nm,976-976 nm,SSS-Specify
Signal Wavelength	1030-1030 nm,1064-1064 nm,SSSS-Specify
Fiber Typefor Pump	15-105/125 NA 0.15,22-105/125 NA 0.22,SS-Specify
Fiber Typefor Input	20-Nufern PLMA-GDF-20/130-M,SS-Specify
Fiber Typefor Output	20-Nufern PLMA-GDF-20/130-M,SS-Specify
Fiber Lengthfor Pump	1 - 1.0 m, S- Specify
Fiber Lengthfor Input	1-1.0 m,S-Specify
Fiber Lengthfor Output	1 -1.0 m, S- Specify

12. SESAM

Source: manufacturer product page. Structured for Optishine.



Wavelength	103 104 / 106 / 1550 / 0 / 4 nm
Wavelength range	lambda c+/- 15 nm
Fiber type	980 / 980 / 1550 980
Package dimensions	3 / 47 / 0.3 / 6 / 5.5 / 0 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	103 104 / 106 / 1550 / 0 / 4
Operating Wavelength Range	nm	lambda c+/- 15
Beam Spot size on SESAM Shiny Surface	um	~12 or Specify
Max. Excess Loss (Input - Input)	dB	1.0
Min. Extinction Ratio (Input - Input)	dB	20 / PM / PM / PM
Fiber Type	980	980 / 980 / 1550
Max. Optical Power	mw	300
Max. Peak Power (ns Pulse Power)	kW	10
Max. Tensile Load	N	5
Operating Temperature	deg C	-5 to +70
Storage Temperature	deg C	-40 to +85

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	3 / 47 / 0.3 / 6 / 5.5 / 0 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	03 -1030 nm,04 -1040 nm,06 -1064 nm, 55 -1550 nm, SS -Specify
Pump Wavelength	97-976 nm,98-980 nm,SS-Specify
Connector Type	1 - FC/UPC,2 -FC/APC,N-None,S-Specify
Jacket Type	B-Barefiber,L-900umloose tube,S-Specify
Fiber Typefor Pump	1-HI 1060,2-PM 980
Fiber Length	1 - 1.0 m, S - Specify
Beam Spotsize	12-12um,18-18um,20-20um,SS-Specify

13. Polarization Maintaining Fiber Optic Circulator - 635 nm

Source: manufacturer product page. Structured for Optishine.



Wavelength	635 nm
Wavelength range	lambda c+/-5 nm
Insertion loss	1.7 dB
Fiber type	Nufern 630-HP
Package dimensions	40 / 26 / 17 / 35 / 23 / 3 / 8 / 2 / 4 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	635
Operating Wavelength Range	nm	lambda c+/-5
Typ. Insertion Loss	dB	1.5
Max. Insertion Loss, 23 °C	dB	1.7
Min. Isolation, 23 °deg C	dB	22
Min. Crosstalk (Port 1 to Port 3)	dB	45
Min. Return loss	dB	45
Max. Polarization Dependent Loss, 23 °C	dB	0.2
Max. Optical Power (Continuous Wave)	mw	100
Max. Tensile Load	N	5
Fiber Type		Nufern 630-HP
Operating Temperature	deg C	10 t 0+50

Parameter	Unit	Value
Storage Temperature	deg C	0 to+60

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	40 / 26 / 17 / 35 / 23 / 3 / 8 / 2 / 4 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	630-630 nm,SS-Specify
Connector Type	1-FC/UPC,2-FC/APC,N-None
Fiber Jacket	B -Bare fiber,L-900 um loose tube, S-Specify
Fiber Length	1-1.0 m,S-Specify

14. Polarization Maintaining Tap Coupler - 780/850 nm

Source: manufacturer product page. Structured for Optishine.



Wavelength	780 or 850 nm
Wavelength range	lambda c +/- 10 nm
Fiber type	PM 780-HP fiber or Specify
Package dimensions	12 / 24 / 10 / 20 / 17 / 4 / 2.2 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	780 or 850
Operating Wavelength Range	nm	lambda c +/- 10
Max.Excess Loss, 23 °C	dB	1.2
Tap Ratio, 23 °C (Tap IL = -10*log(Tap Ratio) + E.L)	%	1 +/- 0.5,5+/- 1.5, 10 +/- 2,50 or Specify
Min. Extinction Ratio	dB	18
Min. Return Loss	dB	50
Max.Optical Power	mw	300
Max. Tensile Load	N	5
Fiber Type		PM 780-HP fiber or Specify
Operating Temperature	deg C	0 to+70
Storage Temperature	deg C	-40 to +85

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	12 / 24 / 10 / 20 / 17 / 4 / 2.2 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	78-780 nm,85 -850 nm, SS -Specify
Configuration	1-1x2
Tap Ratio	01 - 1/99,05 -5/95, 10 - 10/90, 50 - 50/50, SS - Specify
Connector Type	1 -FC/UPC, 2 -FC/APC,N -None,S - Specify
Jacket Type	B-Bare fiber,L-900umloose tube,S-Specify
Fiber Typefor Tap	1-HI 780,2-PM 780-HP,S-Specify
Fiber Length	1 - 1.0 m,S -Specify

15. Motorized Variable Optical Delay Line

Source: manufacturer product page. Structured for Optishine.



Wavelength	1064 or 1550 nm
Wavelength range	lambda c +/- 30 nm
Insertion loss	1.1 dB
Optical power	1 W
Fiber type	Specified by ordering info
Package dimensions	133 / 128 / 20.75 / 5 / 20 / 9 / 8 / 4 / 1.6 mm

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1064 or 1550
Operating Wavelength Range	nm	lambda c +/- 30
Optical Delay Range	ps	0-130
Optical Delay Resolution	ps	0.05
Max. Insertion Loss	dB	1.1
Max. Insertion Loss Variation	dB	0.3
Max. PDL	dB	0.1
Min. Extinction Ratio (for PM fiber only)	dB	18
Min. Return Loss	dB	50
Max. Average Optical Power	W	1
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5

Parameter	Unit	Value
Fiber Type		Specified by ordering info
Power Supply		DC 7~24 V / 5 A
Communication Interface		DB 9 RS 232
Operating Temperature	deg C	0 to +50
Storage Temperature	deg C	-20 to +60

Package Dimensions

Parameter	Value
Units	mm
Dimension callouts shown	133 / 128 / 20.75 / 5 / 20 / 9 / 8 / 4 / 1.6 mm
Drawing note	Dimensions follow the manufacturer drawing. Final production drawing is confirmed per order.

Ordering Information

Option	Values
Wavelength	06-1064 nm,55-1550 nm,SS-Specify
Delay Range	330-0~330 ps
Connector Type	1 -FC/UPC,2-FC/APC,N-None,S-Specify
Fiber Jacket	B-Barefiber,L-900umloose tube,S-Specify
Fiber Typefor Input	1-PM 980,2-FUD-3460,3-PM 1550,S-Specify
Fiber Typefor Output	1-PM 980,2-FUD-3460,3-PM 1550,S-Specify
Fiber Length	1 - 1 m,S -Specify

16. 30W Collimator Isolator

Source: manufacturer product page. Structured for Optishine.



Wavelength	1064 nm
Insertion loss	0.4 dB
Peak isolation	35 dB
Optical power	30 W
Fiber type	Specified by ordering info

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1064
Max. Insertion Loss at 23 C, lambda c	dB	0.4
Typ. Peak Isolation	dB	35
Min. Isolation at 30 C	dB	28
Min. Isolation at all temperature	dB	20
Min. Return Loss	dB	50
Nominal Output Beam Diameter (1/e2)	mm	6.5 +/- 0.5
Beam Circularity	%	> 90
M2 Degradation	%	< 10
Max. Average Optical Power	W	30
Max. Pulse Energy	mJ	2
Reverse Power Handling	W	3 W continuous / 10 W (3 min max)

Parameter	Unit	Value
Fiber Type (input port)		Specified by ordering info
Operating Temperature	C	10 to +50
Storage Temperature	C	0 to +60

17. 500W In-Line Isolator - Passive Cooling

Source: manufacturer product page. Structured for Optishine.



Wavelength	1064 nm
Wavelength range	lambda c +/- 10 nm
Peak isolation	35 dB
Insertion loss	7 dB
Fiber type	Specified by ordering info

SPEC

Parameter	Unit	Value
Center Wavelength (lambda c)	nm	1064
Operating Wavelength Range	nm	lambda c +/- 10
Typ. Peak Isolation	dB	35
Min. Isolation, lambda c, 23 °deg C	dB	28
Typ. Insertion Loss, 23 °deg C	dB	0.4
Max.Insertion Loss, 23 °deg C @ 1064 nm	dB	0.6
Max. Insertion Loss, 23 °deg C @ 650 nm	dB	7
Max.Polarization Dependent Loss	dB	0.2
Min.Return Loss (In / Out)	dB	50
Max.Average Optical Power	W	500
Max. Peak Power for ns pulse	kW	50
Fiber Type		Specified by ordering info

Parameter	Unit	Value
Operating Temperature	deg C	10 to+50
Storage Temperature	deg C	0 to +60

18. High Power Fiber Bragg Grating - High Power Series

Source: manufacturer product page. Structured for Optishine.



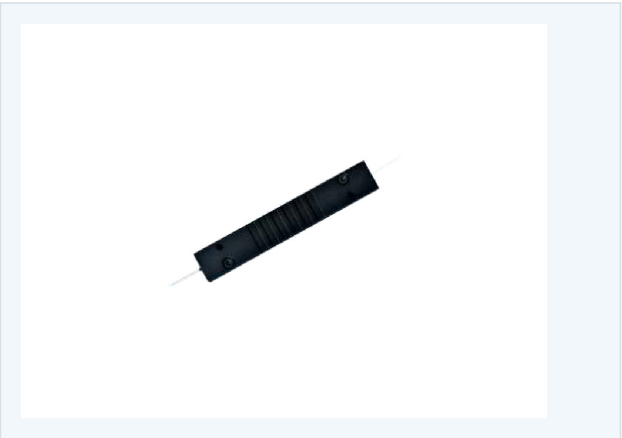
Fiber type LMA-GDF-20/400-HP-M

SPEC

Parameter	Unit	Value
Structure		1 x 1
Fiber Type		LMA-GDF-20/400-HP-M
Signal Wavelength	nm	1080+/- 1 nm
Fiber Grating Type		HR / OC
Lp 01 Reflectivity	%	>99.5 % / 10 +/- 2%
3 dB Bandwidth	nm	3+/- 0.2 nm / 1+/- 0.2 nm
HR-OC Grating Wavelength Matching	nm	<0.2 nm
Pump Transmittance	%	>99%
Operating Temperature	deg C	0~70deg C/<55%
Storage Temperature	deg C	-10~85°deg C/<55%

19. Fiber Grating + Combiner Integration

Source: manufacturer product page. Structured for Optishine.



Fiber type	14/250 / 20/400
Package	only / recoat / recoat / only / D 5 D 5 D 6 / only / recoat / only / recoat / D 6 D 5

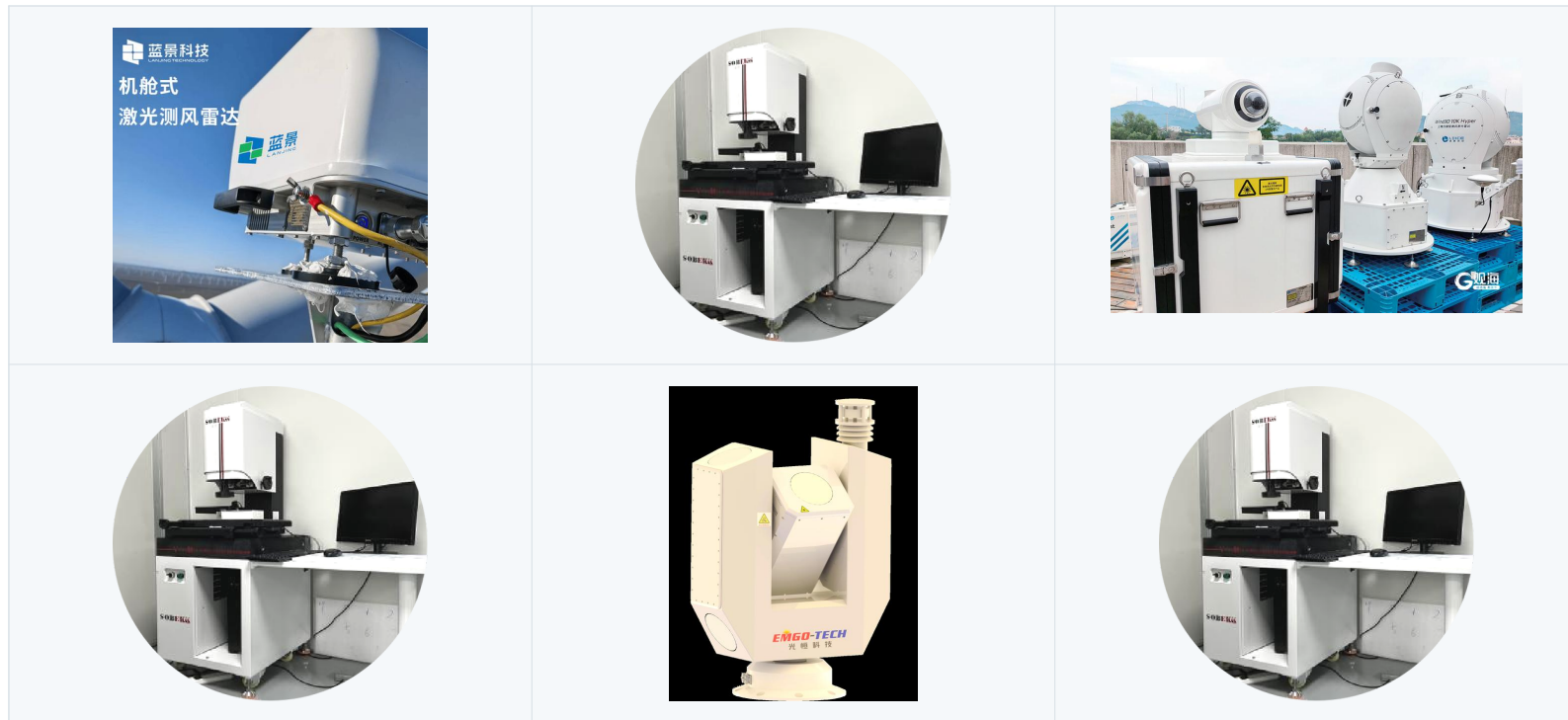
SPEC

Parameter	Unit	Value
Pump Wavelength	nm	800~1000 nm
Signal wavelength	nm	650/1030~1090 nm
The Pump Fibers of Combiner		105/125 135/155 / 135/155 200/220 220/242
FBG Fiber Type		14/250 / 20/400
Another Signal Fiberof Combiner		20/130 / X/250 Y/400(X=20/25/30 Y=20/25)
Product Type		(6+1)x 1/Nx 1+HR OC+(6+1)x 1 (6+1)x 1/Nx 1+HR OC+(6+1)x 1 / (6+1)x 1/Nx 1 HR 0 C (6+1)x 1 (6+1)x 1/Nx 1 HR OC (6+1)x 1
Pump Efficiency	%	>=97%
Signal Insertion Loss	dB	<=1.5 dB <=0.2 dB / <=1.5 dB / <=0.2 dB
Signal Reflectivity	%	>99.5% 3%~20% / >99.5% / 3%~20%
FBG 3 dB Bandwidth	nm	0.2~4 nm
Wavelength Mismatch	nm	<=0.2 nm

Parameter	Unit	Value
Max Pump Power Handling	W	2000 W / 4500 W
Max Signal Power Handling	W	1000 W / 3000 W
Package Dimensions	D 5	only / recoat / recoat / only / D 5 D 5 D 6 / only / recoat / only / recoat / D 6
Operating Temperature	deg C	0~75deg C
Storage Temperature	deg C	-40 to +85

Emgo Technology Product Range

Wind LiDAR, laser sensing and atmospheric observation systems. This section extends the Optishine 2026 catalogue with 23 Emgo Technology products.



Source: Emgo Technology public product pages captured from February to March 2026. Public reference images are associated with the named product families. Final drawings, interfaces, packaging and performance are confirmed against the selected configuration.

1. Nacelle Wind LiDAR - HJ4-400

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	Nacelle Wind LiDAR - HJ4-400
Detection Distance Range	50-400 m
Data Update Rate	1-4 Hz (software configurable)
Range Gates	30
Wind Speed Measurement Range	0-70 m/s

Key Features

- Coherent Doppler wind detection
- 50-400 m measurement range
- Up to 30 configurable range gates
- Designed for turbine feed-forward control

Specifications

Parameter	Unit	Value
Detection Distance Range	m	50-400
Data Update Rate		1-4 Hz (software configurable)
Range Gates		30
Wind Speed Measurement Range	m/s	0-70
Wind Speed Accuracy	m/s	0.1
Wind Direction Accuracy	°	<=0.5
Number Of Beams		4 beams

Parameter	Unit	Value
Data Products		Radial wind speed, pitch angle and roll angle, 1s/10 min hub height horizontal wind speed and direction sequence, horizontal and vertical wind shear, turbulence intensity, signal-to-noise ratio, data acquisition rate, etc.
Data Storage		CSV text format, 1 year of data storage
Data Interface		Network (RJ45), CAN (RJ45), Modbus-RTU, Profibus-DP, etc. (customizable)

2. Tower Wind LiDAR - HD4-400

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	Tower Wind LiDAR - HD4-400
Laser Wavelength	1550 nm (eye-safe)
Detection Height Range	30-400 m
Spatial Resolution	Any 30 heights within the range of 30-400 m, software configurable
Data Refresh Time	1s-10 min (software configurable)

Key Features

- 30-400 m vertical wind profile
- Up to 30 configurable height gates
- Designed around IEC 61400-12-1:2017
- Wind-resource assessment and power-curve testing

Specifications

Parameter	Unit	Value
Laser Wavelength		1550 nm (eye-safe)
Detection Height Range	m	30-400
Spatial Resolution		Any 30 heights within the range of 30-400 m, software configurable
Data Refresh Time		1s-10 min (software configurable)
Wind Speed Measurement Range	m/s	0-70
Wind Speed Accuracy	m/s	<=0.1
Wind Direction Accuracy	°	<1

Parameter	Unit	Value
Data Products		Second-level and time-averaged wind speed and direction, vertical speed, maximum and minimum horizontal wind speed, wind speed mean square error (turbulence intensity), wind shear index, signal-to-noise ratio data, position time, radar status data, ground atmospheric temperature, humidity, air pressure data, etc.

3. 3D Scanning Wind LiDAR - H3D Series

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	3D Scanning Wind LiDAR - H3D Series
Detection Distance Range	30-10 m / km (typical, the furthest detection capability is 16.8 km)
Wind Speed Measurement Range	0-60 m/s
Azimuth Range	0 to 360 °
Elevation Angle Range	-10 to 190 ° (U type, H3D2-10K) -5 to 185 ° (spherical type, H3D3-10K)

Key Features

- 30 m-10 km typical detection range
- U-type or spherical scanner
- DBS, RHI, PPI and CAPPI modes
- Offshore wind-resource and emergency support

Specifications

Parameter	Unit	Value
Detection Distance Range		30-10 m / km (typical, the furthest detection capability is 16.8 km)
Wind Speed Measurement Range	m/s	0-60
Azimuth Range	°	0 to 360
Elevation Angle Range		-10 to 190 ° (U type, H3D2-10K) -5 to 185 ° (spherical type, H3D3-10K)
Wind Speed Accuracy	m/s	<=0.1
Wind Direction Accuracy	°	<=0.5
Distance Resolution		9.6-150 m can be set

Parameter	Unit	Value
Scan Mode		DBS, RHI, PPI, CAPPI, glideslope, wake vortex identification, programmable customization
Data Storage		CSV text format, data storage capacity for more than three months (customizable)
Data Interface		Network (RJ45), CAN (RJ45), Modbus-RTU, Profibus-DP, etc. (customizable)

4. Ground-Based Wind LiDAR - HD1-3000

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	Ground-Based Wind LiDAR - HD1-3000
Detection Distance Range	50-3000 m
Wind Speed Measurement Range	0-60 m/s
Wind Speed Error	<=0.5 m/s(V<=10 m/s),<=5 %V(V>10 m/s)
Wind Direction Error	<=5 °

Key Features

- 50-3000 m measurement range
- Remote monitoring over network or 4G
- Airport, port and emergency-response use
- Wind-resource assessment and UAV support

Specifications

Parameter	Unit	Value
Detection Distance Range	m	50-3000
Wind Speed Measurement Range	m/s	0-60
Wind Speed Error		<=0.5 m/s(V<=10 m/s),<=5 %V(V>10 m/s)
Wind Direction Error	°	<=5
Distance Resolution		9.6-150 m configurable
Data Products		Wind speed, direction and vertical airflow, wind shear, downburst, high cloud base, synthetic wind
Ingress Protection		IP66

Parameter	Unit	Value
Data Storage		CSV text format, data storage capacity for more than three months (customizable)
Data Interface		Network (RJ45), 4G, etc. (customizable)
Power Consumption	W	Normal <=200

5. Portable Wind LiDAR - HS1-1500

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	Portable Wind LiDAR - HS1-1500
Detection Distance Range	50-1500 m
Wind Speed Measurement Range	0-60 m/s
Wind Speed Error	<=0.5 m/s(V<=10 m/s),<=5 %V(V>10 m/s)
Wind Direction Error	<=5 °

Key Features

- 50-1500 m measurement range
- Portable optical scanning architecture
- Remote monitoring over network or 4G
- Emergency response and mobile field deployment

Specifications

Parameter	Unit	Value
Detection Distance Range	m	50-1500
Wind Speed Measurement Range	m/s	0-60
Wind Speed Error		<=0.5 m/s(V<=10 m/s),<=5 %V(V>10 m/s)
Wind Direction Error	°	<=5
Distance Resolution		9.6-150 m configurable
Data Products		Wind speed, direction and vertical airflow, wind shear, downburst, synthetic wind
Ingress Protection		IP66

Parameter	Unit	Value
Data Storage		CSV text format, data storage capacity for more than three months (customizable)
Data Interface		Network (RJ45), 4G, etc. (customizable)
Power Consumption	W	<=150

6. Blade Clearance LiDAR - GJK3-200

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	Blade Clearance LiDAR - GJK3-200
Detection Distance	<=200 m
Distance Resolution	<=0.1 m
Distance Measurement Accuracy	+/-0.2 m
Repeatable Measurement Accuracy	+/-0.2 m

Key Features

- Three 905 nm laser beams
- Up to 200 m blade-clearance measurement
- Protects turbines against blade-tower contact
- Modbus RTU, Modbus TCP and CANopen interfaces

Specifications

Parameter	Unit	Value
Detection Distance	m	<=200
Distance Resolution	m	<=0.1
Distance Measurement Accuracy	m	+/-0.2
Repeatable Measurement Accuracy	m	+/-0.2
Ambient Light Resistance		100Klux
Number Of Beams		3 beams
Measurement Mode		Supports single point measurement and continuous measurement

Parameter	Unit	Value
Data Bus		Modbus RTU / Modbus TCP / CANopen (customizable)
Power Supply	W	DC24 V, 2.5 A, power consumption 60
Operating Temperature Range	°C	-40 to 60
Dimensions	mm	<=200x133x170
Weight	kg	Main unit <=2.5

7. Smart Nacelle Wind LiDAR - HJ4-200 / HJ2-200

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	Smart Nacelle Wind LiDAR - HJ4-200 / HJ2-200
Detection Distance Range	50-200 m
Data Update Rate	1-4 Hz (software configurable)
Wind Speed Measurement Range	0-70 m/s
Wind Speed Accuracy	0.1 m/s

Key Features

- 50-200 m measurement range
- 2-beam or 4-beam configuration
- IP67 turbine-mounted enclosure
- Turbine feed-forward control and load analysis

Specifications

Parameter	Unit	Value
Detection Distance Range	m	50-200
Data Update Rate		1-4 Hz (software configurable)
Wind Speed Measurement Range	m/s	0-70
Wind Speed Accuracy	m/s	0.1
Wind Direction Measurement Accuracy	°	+/-0.5
Number Of Beams		4 beams (HJ4-200); 2 beams (HJ2-200)
Data Products		Radial wind speed, pitch angle and roll angle, 1s/10 min wheel hub altitude horizontal wind speed and direction sequence

Parameter	Unit	Value
Data Storage		ASCII, CSV data format, >=6 months of data (customizable)
Data Interface		Support RJ45, Modbus-RTU, Modbus-TCP, CanOpen, Profibus-DP (customizable)
Power Consumption	W	<=50
IP Rating		IP67
Dimensions	mm	390x291x225
Weight		8.5 kg (HJ4-200); 8 kg (HJ2-200)

8. 3D Scanning Wind LiDAR

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	3D Scanning Wind LiDAR
Detection Distance Range	30 m-10 km (typical; maximum detection capability 16.8 km)
Line-of-Sight Wind Speed Range	-65 to +65 m/s
Azimuth Range	0 to 360 °
Elevation Angle Range	-5 to 185 °

Key Features

- 30 m-10 km typical detection range
- 3D scanning wind-field reconstruction
- Wind profile, PPI, RHI and CAPPI modes
- Low-altitude meteorological support

Specifications

Parameter	Unit	Value
Detection Distance Range		30 m-10 km (typical; maximum detection capability 16.8 km)
Line-of-Sight Wind Speed Range	m/s	-65 to +65
Azimuth Range	°	0 to 360
Elevation Angle Range	°	-5 to 185
Wind Speed Resolution	m/s	<=0.1
Wind Direction Resolution		<=0.5
Distance Resolution		9.6-150 m adjustable

Parameter	Unit	Value
Data Storage		CSV text format, >=3 months of data (customizable)
Scan Mode		Wind profile mode, PPI mode, RHI mode, CAPPI mode, airport runway scanning mode
Data Interface		Network (RJ45), CAN (RJ45), Modbus-RTU, Profibus-DP, etc. (customizable)
Power Consumption	W	Typical <=400
IP Rating		IP66
Dimensions	mm	<=Phi 500 x 1000
Weight	kg	<=120

9. Vertical Wind LiDAR - 400 m

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	Vertical Wind LiDAR - 400 m
Laser Wavelength	1550 nm (eye-safe)
Detection Height Range	30-400 m
Spatial Resolution	Any 30 heights within the range, software configurable
Data Refresh Time	1s-10 min (software configurable)

Key Features

- Eye-safe 1.5 um laser source
- 30-400 m vertical measurement
- IP67 compact enclosure
- Take-off and landing site monitoring

Specifications

Parameter	Unit	Value
Laser Wavelength		1550 nm (eye-safe)
Detection Height Range	m	30-400
Spatial Resolution		Any 30 heights within the range, software configurable
Data Refresh Time		1s-10 min (software configurable)
Line-of-Sight Wind Speed Range	m/s	0-70
Wind Speed Measurement Accuracy	m/s	<=0.1
Wind Direction Measurement Accuracy	°	<1

Parameter	Unit	Value
Data Products		Second-level and time-averaged wind speed and direction, vertical speed, maximum and minimum horizontal wind speed, wind speed mean square error (turbulence intensity), wind shear index, signal-to-noise ratio data, position time, radar status data, ground atmospheric temperature, humidity, air pressure data, etc.
IP Rating		IP67
Dimensions	mm	667x562x389
Weight	kg	<=60
Power Consumption		<=60 W (<=200 W when heating)

10. Vertical Wind LiDAR - 1000 m

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	Vertical Wind LiDAR - 1000 m
Laser Wavelength	1550 nm (eye-safe)
Detection Height Range	30-1000 m
Spatial Resolution	Any 30 heights within the range of 30-1000 m, software configurable
Data Refresh Time	1s-10 min (software configurable)

Key Features

- Eye-safe 1.5 um laser source
- 30-1000 m vertical measurement
- IP67 lightweight enclosure
- Rapid deployment for low-altitude wind monitoring

Specifications

Parameter	Unit	Value
Laser Wavelength		1550 nm (eye-safe)
Detection Height Range	m	30-1000
Spatial Resolution		Any 30 heights within the range of 30-1000 m, software configurable
Data Refresh Time		1s-10 min (software configurable)
Line-of-Sight Wind Speed Range	m/s	0-70
Wind Speed Measurement Accuracy	m/s	<=0.1
Wind Direction Measurement Accuracy	°	<1

Parameter	Unit	Value
Data Products		Second-level and time-averaged wind speed and direction, vertical speed, maximum and minimum horizontal wind speed, wind speed mean square error (turbulence intensity), wind shear index, signal-to-noise ratio data, position time, radar status data, ground atmospheric temperature, humidity, air pressure data, etc.
IP Rating		IP67
Weight	kg	<=30
Power Consumption	W	<=150

11. Portable Wind LiDAR - 3000 m

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Wind Lidar
Product type	Portable Wind LiDAR - 3000 m
Detection Distance Range	50-3000 m
Wind Speed Measurement Range	0-60 m/s
Wind Speed Error	<=0.8 m/s(V<=10 m/s), <=8 %V(V>10 m/s)
Wind Direction Error	<=8 °

Key Features

- 50-3000 m measurement range
- Battery power and rapid deployment
- IP67 compact portable enclosure
- Low-altitude, field and disaster-response use

Specifications

Parameter	Unit	Value
Detection Distance Range	m	50-3000
Wind Speed Measurement Range	m/s	0-60
Wind Speed Error		<=0.8 m/s(V<=10 m/s), <=8 %V(V>10 m/s)
Wind Direction Error	°	<=8
Distance Resolution	m	>=10
Data Storage		>=3 months data (customizable)
Data Interface		UDP (RJ45)

Parameter	Unit	Value
System Power Supply	V	Battery 1-2 hours, 220 VAC, DC22-30
Power Consumption		<=150 W (<=300 W when heating)
IP Rating		IP67
Dimensions	mm	<=380 mm*170 mm*370
Weight	kg	18

12. Integrated Laser Environmental Monitoring System - H4X

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Atmospheric Sensing
Product type	Integrated Laser Environmental Monitoring System - H4X
Operating Mode	Pulse working system
Laser Wavelength	1550 nm+/-10 nm
Detection Range	(1) Wind profile detection mode: Vertical maximum detection height: >=3000 m Vertical minimum detection height: <=45 m Vertical detection height resolution: <30 m Wind speed: 0-60 m/s Wind direction: 0-360 °2) Scanning detection mode: Maximum radial detection distance: >=10000 m (below 1000 m height) Minimum radial detection distance: <=50 m Vertical detection height resolution: <= 30 m azimuth scanning range: 0-360 ° Pitch scanning range: 0-180 °
Detection Error	Wind speed: <=0.5 m/s (V<=10 m/s); <=5 %V (V>10 m/s) (root mean square error) Wind direction: <=5 ° (V>5 m/s, root mean square error)

Key Features

- 355, 532, 1064 and 1550 nm pulsed laser channels
- Aerosol, cloud and boundary-layer products
- Wind profile and scanning detection modes
- Meteorology, environmental and research applications

Specifications

Parameter	Unit	Value
Operating Mode		Pulse working system
Laser Wavelength	nm	1550 nm+/-10
Detection Range	°	(1) Wind profile detection mode: Vertical maximum detection height: >=3000 m Vertical minimum detection height: <=45 m Vertical detection height resolution: <30 m Wind speed: 0-60 m/s Wind direction: 0-360 °2) Scanning detection mode: Maximum radial detection distance: >=10000 m (below 1000 m height) Minimum radial detection distance: <=50 m Vertical detection height resolution: <= 30 m azimuth scanning range: 0-360 ° Pitch scanning range: 0-180

Parameter	Unit	Value
Detection Error		Wind speed: ≤ 0.5 m/s ($V \leq 10$ m/s); $\leq 5\%$ ($V > 10$ m/s) (root mean square error) Wind direction: $\leq 5^\circ$ ($V > 5$ m/s, root mean square error)
Time Resolution		0.2s (radial wind speed)
Data Efficiency		Effective efficiency of detection data (20 km $\geq$ visibility ≥ 3 km, without precipitation and obstruction): (1) Wind profile detection mode: $\geq 90\%$ (detection height ≤ 1500 m); $\geq 70\%$ (1500 m $<$ detection altitude ≤ 3000 m) (2) Scanning detection mode: $\geq 90\%$ (detection distance ≤ 3000 m) $\geq 80\%$ (3000 m $<$ detection distance ≤ 6000 m)

13. Forward-Scatter Visibility Sensor

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Atmospheric Sensing
Product type	Forward-Scatter Visibility Sensor
Measuring Range	10-30000 m
Measurement Accuracy	+/-10 %
Dimensions	696x280x170 mm
DC Input	12-24 V

Key Features

- Forward-scatter visibility measurement
- 10 m-30 km measurement range
- Integrated stainless-steel marine enclosure
- Drilling platform, ship and highway deployment

Specifications

Parameter	Unit	Value
Measuring Range	m	10-30000
Measurement Accuracy	%	+/-10
Dimensions	mm	696x280x170
DC Input	V	12-24
Power	W	<=6
Ambient Temperature	°C	-45 to 60
Relative Humidity	%	0-100

Parameter	Unit	Value
Atmospheric Pressure	hPa	>=650
Weight	kg	<=3.8

14. Automatic Weather Observation Station

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Atmospheric Sensing
Product type	Automatic Weather Observation Station
Supply Voltage	DC 9-24 V
Signal Output	RS485
Communication Protocol	Standard MODBUS protocol
Baud Rate	9600 bps

Key Features

- Integrated wind, temperature, humidity and pressure sensing
- Optional PM2.5, PM10, noise, radiation and rain sensors
- RS485 Modbus communication
- Low-altitude take-off and landing site monitoring

Specifications

Parameter	Unit	Value
Supply Voltage	V	DC 9-24
Signal Output		RS485
Communication Protocol		Standard MODBUS protocol
Baud Rate		9600 bps
Average Power Consumption		0.4 W (without dust sensor) 1 W (with dust sensor)
Operating Temperature	°C	-40 to 80
Operating Humidity		0-95 %RH

Parameter	Unit	Value
Protection Rating		IP65
Dimensions	mm	Phi 160x286xPhi 60

15. Atmospheric Electric Field Mill

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Atmospheric Sensing
Product type	Atmospheric Electric Field Mill
Electric Field Detection Range	0-+/-100 kV/m
Detection Radius	20 km
Sensitivity	5 V/m
Measurement Error	<5 %

Key Features

- +/-100 kV/m atmospheric electric-field range
- 20 km lightning detection radius
- Multi-station network warning model
- Solar or AC power options

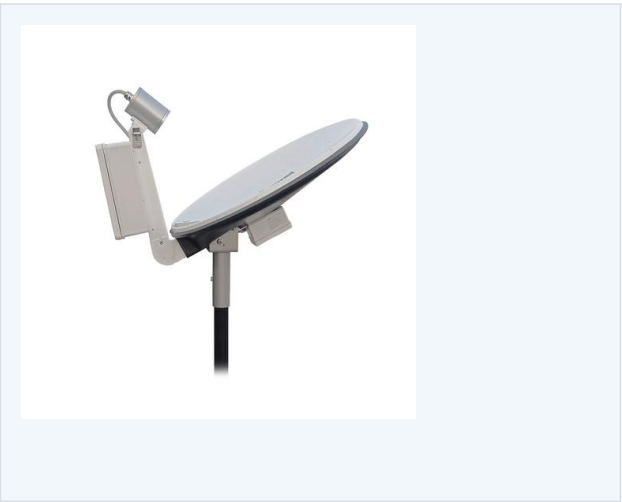
Specifications

Parameter	Unit	Value
Electric Field Detection Range		0-+/-100 kV/m
Detection Radius	km	20
Sensitivity		5 V/m
Measurement Error	%	<5
Sampling Rate		10/s-0.1/s
Communication Rate		1200bps
Power Supply		AC220 V or DC12 V (solar powered)

Parameter	Unit	Value
Power Consumption	W	<=2
Reliability Mean Time Between Failures		>=3000h
Maintainability Mean Time To Repair		<=30 min
Environmental Characteristics		Working environment temperature -25 °C-+60 °C Working environment humidity 0-100 % Storage environment temperature -30 °C-+65 °C Storage environment humidity 0-100 % Wind resistance strength <=12 level (32.7 m/s)
Dimensions	mm	1150x2600x715

16. Micro Rain Radar

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Atmospheric Sensing
Product type	Micro Rain Radar
Parabolic Antenna	Transmitting and receiving antennas are separated; antenna diameter 60 cm; 3 dB beamwidth 1.6°
Radar Transmitter	Frequency modulation: FMCW; Polarization: linear; Frequency: 24 GHz Modulation bandwidth: 5 MHz, 1.5-5 MHz adjustable transmit power: >=100 mW
Radar Receiver	Doppler spectrum analysis sampling time: 10s Data transmission: RJ-45 Speed: resolution 0.2 m/s, maximum speed - 12 m/s Height: resolution 30 - 100 m, maximum height - 6400 m Power-on indicator: LED
Dimensions	(1450+/-50)x(1270+/-50)x(1470+/-50)mm

Key Features

- 24 GHz FMCW precipitation radar
- Raindrop size distribution and rainfall inversion
- Doppler spectrum analysis
- Rainfall warning and quantitative analysis

Specifications

Parameter	Unit	Value
Parabolic Antenna		Transmitting and receiving antennas are separated; antenna diameter 60 cm; 3 dB beamwidth 1.6°
Radar Transmitter	mW	Frequency modulation: FMCW; Polarization: linear; Frequency: 24 GHz Modulation bandwidth: 5 MHz, 1.5-5 MHz adjustable transmit power: >=100
Radar Receiver		Doppler spectrum analysis sampling time: 10s Data transmission: RJ-45 Speed: resolution 0.2 m/s, maximum speed - 12 m/s Height: resolution 30 - 100 m, maximum height - 6400 m Power-on indicator: LED
Dimensions		(1450+/-50)x(1270+/-50)x(1470+/-50)mm

17. All-Sky Imager

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Atmospheric Sensing
Product type	All-Sky Imager
Sensor Technology	20 million pixels, high-quality CMOS sensor
Resolution	50 Hz: 25 fps; 60 Hz: 30 fps
Display Modes	Fisheye original image, 180 panorama, 360 panorama, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 2PTZ, 4PTZ, fisheye + 3PTZ, fisheye + 8PTZ, hemisphere, AR hemisphere, cylinder expansion
Noise Suppression	3D digital noise reduction

Key Features

- 20 MP CMOS all-sky imaging
- Daytime cloud-cover observation
- AI-assisted cloud recognition
- Meteorology, aviation, marine and smart-city use

Specifications

Parameter	Unit	Value
Sensor Technology		20 million pixels, high-quality CMOS sensor
Resolution		50 Hz: 25 fps; 60 Hz: 30 fps
Display Modes		Fisheye original image, 180 panorama, 360 panorama, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 2PTZ, 4PTZ, fisheye + 3PTZ, fisheye + 8PTZ, hemisphere, AR hemisphere, cylinder expansion
Noise Suppression		3D digital noise reduction
Strong Light Suppression		Automatic
Backlight Compensation		Automatic

Parameter	Unit	Value
Fog Penetration		Automatic
White Balance		Automatic
Gain Control		Automatic
Storage Function		Supports Micro SD/SDHC/SDXC (128G offline local storage, NAS (NFS, SMB/CIFS supported)

18. 20W In-Line Isolator

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Isolators
Product type	20W In-Line Isolator
Rated optical power	20 W
Application	High-power pulsed lasers

Key Features

- Designed for high-power pulsed laser applications
- In-line or collimating configuration
- Fiber and package configuration confirmed per project

Specifications

Parameter	Unit	Value
Rated optical power		20 W
Application		High-power pulsed lasers

19. 120W Collimating Isolator

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Isolators
Product type	120W Collimating Isolator
Rated optical power	120 W
Application	High-power pulsed lasers

Key Features

- Designed for high-power pulsed laser applications
- In-line or collimating configuration
- Fiber and package configuration confirmed per project

Specifications

Parameter	Unit	Value
Rated optical power		120 W
Application		High-power pulsed lasers

20. 300W In-Line Isolator

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Isolators
Product type	300W In-Line Isolator
Rated optical power	300 W
Application	High-power pulsed lasers

Key Features

- Designed for high-power pulsed laser applications
- In-line or collimating configuration
- Fiber and package configuration confirmed per project

Specifications

Parameter	Unit	Value
Rated optical power		300 W
Application		High-power pulsed lasers

21. 500W Collimating Isolator - Water-Cooled

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Isolators
Product type	500W Collimating Isolator - Water-Cooled
Rated optical power	500 W
Application	High-power pulsed lasers

Key Features

- Designed for high-power pulsed laser applications
- In-line or collimating configuration
- Fiber and package configuration confirmed per project

Specifications

Parameter	Unit	Value
Rated optical power		500 W
Application		High-power pulsed lasers

22. 30W Collimating Isolator

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Isolators
Product type	30W Collimating Isolator
Rated optical power	30 W
Application	High-power pulsed lasers

Key Features

- Designed for high-power pulsed laser applications
- In-line or collimating configuration
- Fiber and package configuration confirmed per project

Specifications

Parameter	Unit	Value
Rated optical power		30 W
Application		High-power pulsed lasers

23. 500W In-Line Isolator - Passive Cooling

Manufacturer: Emgo Technology. Source: archived public product page. Structured by Optishine for configuration review.



Manufacturer	Emgo Technology
Category	Isolators
Product type	500W In-Line Isolator - Passive Cooling
Rated optical power	500 W
Application	High-power pulsed lasers

Key Features

- Designed for high-power pulsed laser applications
- In-line or collimating configuration
- Fiber and package configuration confirmed per project

Specifications

Parameter	Unit	Value
Rated optical power		500 W
Application		High-power pulsed lasers