

# C-band gain-flattened erbium-doped fiber amplifier(LA-GF SM 23/25dbm Benchtop FC/APC)



## ● Product Description

The gain-flattened erbium-doped fiber amplifier is specially used in fiber laser or fiber communication systems. It can simultaneously amplify multiple wavelength signals in the C band and keep the gain between each wavelength consistent. The gain flatness is  $\leq 1.5$  dB. It has the ability to simultaneously amplify multiple wavelengths in a wide spectrum, as well as the advantages of gain flatness, adjustable gain, high gain and low noise.

## ● Product features

Gain flatness、 High gain coefficient、 Wide wavelength range



## ● Part Number

MP-EDFA-C-23/25-B-LA-GF-SM

## ● Application area

Fiber optic communication、 Fiber optic sensing、 Fiber optic laser

## ● Core parameters

Wavelength range	Saturated output power	Gain flatness
1530~1565nm	23/25dbm	≤1.5dB

## ● General Parameters

Main Parameters:

Optical indicators	Unit	Typ			Note
Wavelength range	nm	1530~1565nm			
Input power	dBm	-45~-25	-12~ +3	-25~ +3	Customizable
Max. output power	dBm	14	17/20/23/25/26		
Adjustment range	dB	25	25	25	
Noise index	dB	5	5	5.5	
Working mode	-	ACC/APC/AGC			
Parameter adjustment range		ACC : 0~100% ; APC : 10%~100% ; AGC : 0 ~25dB			
Gain flatness	dB	≤1.5			APC/AGC ,

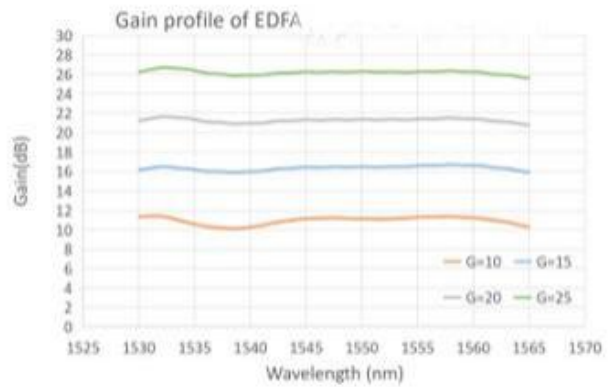
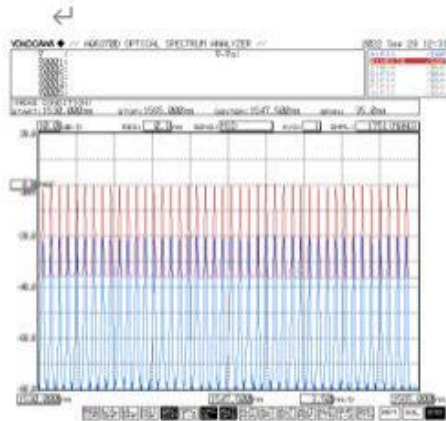


				10~25dB
<b>Input/output isolation</b>	<b>dB</b>	<b>&gt;35</b>		
<b>Optical power monitoring</b>	-	<b>Input and output optical power monitoring</b>		
<b>Fiber and connectors</b>	-	<b>SMF-28</b>	<b>PM1550</b>	<b>FC/APC connector</b>
<b>Polarization-dependent gain</b>	<b>dB</b>	<b>≤0.3</b>	-	
<b>Polarization mode dispersion</b>	<b>ps</b>	<b>0.5</b>	-	
<b>Polarization extinction ratio</b>	<b>dB</b>	-	<b>≥23</b>	

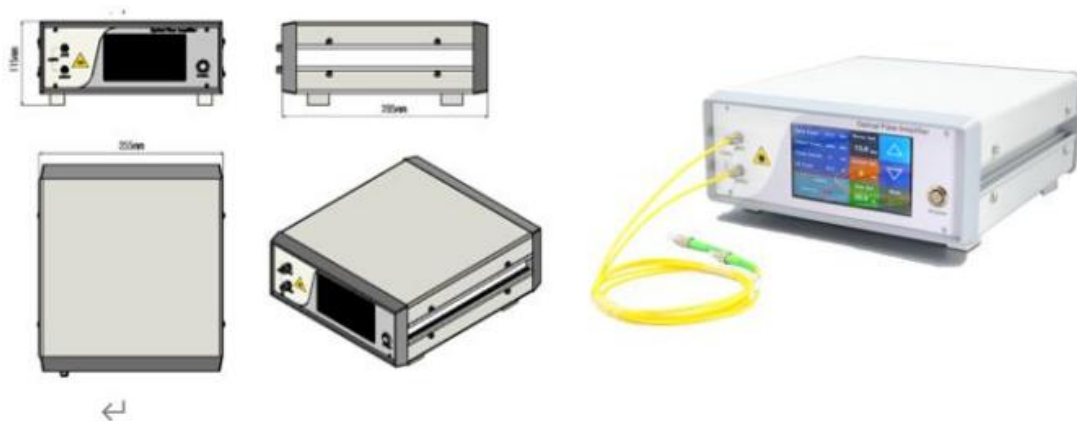
<b>Electrical and environmental parameters</b>	<b>Benchtop</b>	<b>Modules</b>
<b>Control mode</b>	<b>Button/RS232 serial communication</b>	<b>RS232 Serial communication</b>
<b>Communication interface</b>	<b>DB9 Female</b>	<b>DB9 Female</b>
<b>Power supply</b>	<b>100~240V AC, &lt;30W</b>	<b>5V DC, &lt;15W</b>
<b>Dimensions</b>	<b>260(W) × 280(D) × 120(H)mm</b>	<b>125(W) × 150(D) × 20(H)mm</b>



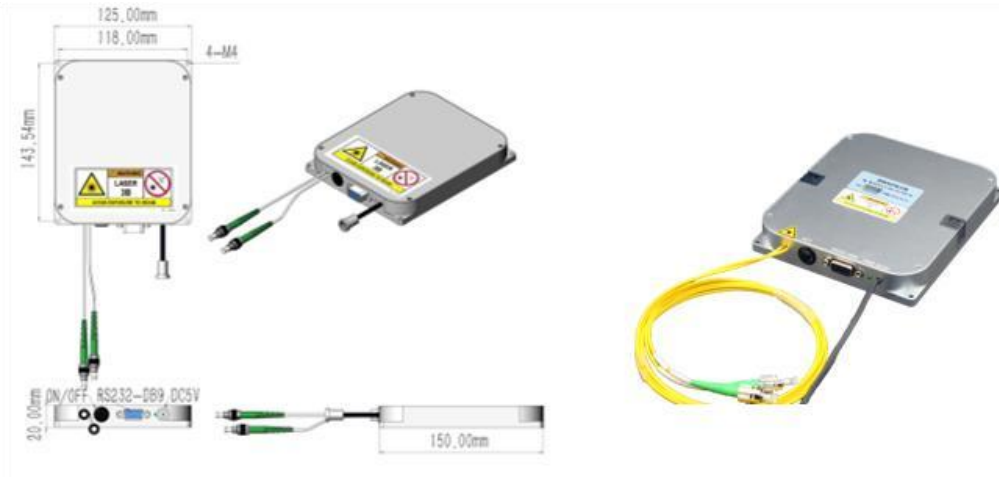
Operating temperature range	-5~ +35°C
Operating humidity range	0~70%



## Dimensions:



Desktop object and Dimensions



**M20 Modular Model and Dimensions**

## Appendix 1: Optional Configuration Table

<b>C-Band Gain-Flattened Erbium-Doped Fiber Amplifier</b>	<b>Optional Configuration</b>						
	<b>Working wavelength</b>	<b>Type</b>	<b>Saturated output power</b>	<b>Fiber Type</b>	<b>Connectors</b>	<b>Package Type</b>	<b>Optional configuration reserved</b>
<b>Erbium-doped fiber amplifier</b>	<b>C wavelength</b>	<b>Gain-flat small signal amplifier PA-GF</b>	<b>11-15dbm</b>	<b>Single Mode</b>	<b>FC/APC</b>	<b>Modules</b>	



		Gain-flat power amplifier BA-GF	16-20dbm	Polarization Maintaining		Benchtop	
		Gain-flat line amplifier LA-GF	21-25dbm				
			26-30dbm				

## Appendix 2: Part Number and Stock Number Comparison Table

PN#	Specification
MP-EDFA-C-14-M-PA-GF-PM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened small signal amplifier PA-GF, saturated output power: 14dbm, polarization-maintaining, FC/APC connector, module
MP-EDFA-C-14-B-PA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened small signal amplifier PA-GF, saturated output power: 14dbm, single mode, FC/APC connector, benchtop



<b>MP-EDFA-C-23/2</b>  <b>5-M-BA-GF-SM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 23/25dbm, single mode, FC/APC connector, module</b></p>
<b>MP-EDFA-C-26-</b>  <b>M-BA-GF-SM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, single mode, FC/APC connector, module</b></p>
<b>MP-EDFA-C-17/2</b>  <b>0-M-BA-GF-PM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 17/20dbm, polarization-maintaining, FC/APC connector, module</b></p>
<b>MP-EDFA-C-23/2</b>  <b>5-M-BA-GF-PM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 23/25dbm, polarization-maintaining, FC/APC connector, module</b></p>
<b>MP-EDFA-C-26-</b>  <b>M-BA-GF-PM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, module</b></p>
<b>MP-EDFA-C-26-</b>  <b>B-BA-GF-SM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, single mode, FC/APC connector, benchtop</b></p>
<b>MP-EDFA-C-23/2</b>  <b>5-B-LA-GF-SM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 23/25dbm, single mode, FC/APC connector, benchtop</b></p>



<b>MP-EDFA-C-26- B-LA-GF-SM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 26dbm, single mode, FC/APC connector, benchtop</b></p>
<b>MP-EDFA-C-17/2 0-B-LA-GF-PM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 17/20dbm, polarization-maintaining, FC/APC connector, benchtop</b></p>
<b>MP-EDFA-C-23/2 5-B-LA-GF-PM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 23/25dbm, polarization-maintaining, FC/APC connector, benchtop</b></p>
<b>MP-EDFA-C-26- B-LA-GF-PM</b>	<p><b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, benchtop</b></p>