

## C-band gain flat Erbium-doped fiber amplifier(PA-GF PM 14dbm 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-14-B-PA-GF-SM

## ● Application area

Fiber optic communication、 Fiber optic sensing、 Fiber optic laser

## ● Core parameters

Wavelength range	Saturated output power	Gain flatness
1530~1565nm	14dbm	≤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			

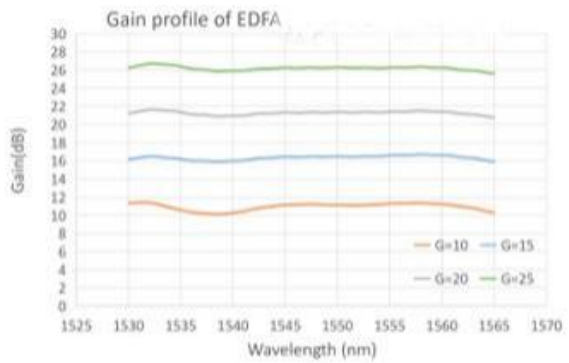
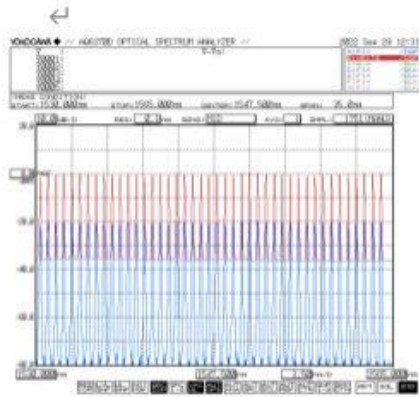


Gain flatness	dB	$\leq 1.5$		APC/AGC , 10~25dB
Input/output isolation	dB	$>35$		
Optical power monitoring	-	Input and output optical power monitoring		
Fiber and connectors	-	SMF-28	PM1550	FC/APC connector
Polarization-dependent gain	dB	$\leq 0.3$	-	
Polarization mode dispersion	ps	0.5	-	
Polarization extinction ratio	dB	-	$\geq 23$	

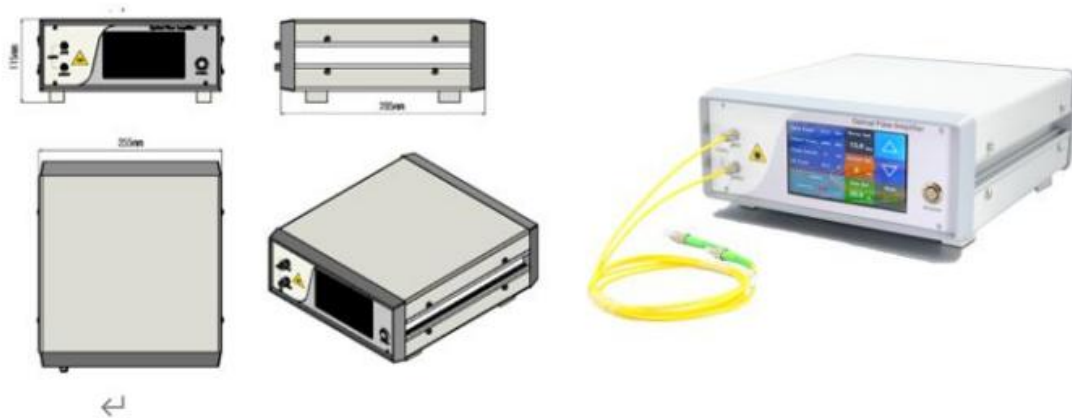
Electrical and environmental parameters	Benchtop	Modules
Control mode	Button/RS232 serial communication	RS232 Serial communication
Communication interface	DB9 Female	DB9 Female
Power supply	100~240V AC, <30W	5V DC, <15W
Dimensions	260(W) × 280(D) ×	125(W) × 150(D)



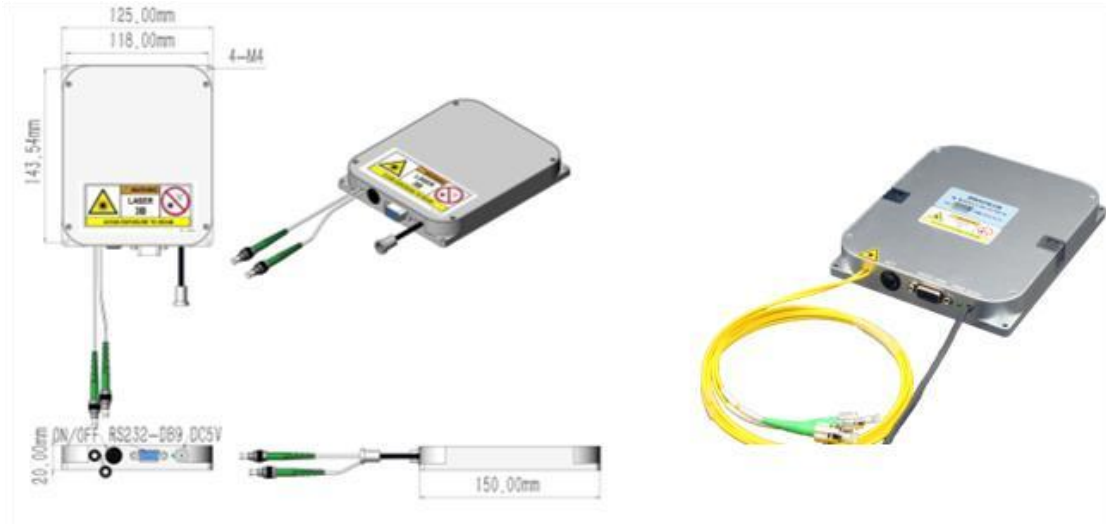
	120(H)mm	×20(H)mm
<b>Operating temperature range</b>	-5~ +35°C	
<b>Operating humidity range</b>	0~70%	



### Dimensions:



Desktop object and Dimensions



M20 Modular Model and Dimensions

## Appendix 1: Optional Configuration Table

C-Band Gain-Flattened Erbium-Doped Fiber Amplifier	Optional Configuration						
	Working wavelength	Type	Saturated output power	Fiber Type	Connectors	Packaging Type	Optional configuration reserved
Erbium-doped fiber amplifier	C wavelength	Gain-flat small signal amplifier	11-15db	Single Mode	FC/APC	Modules	



		<b>PA-GF</b>	<b>m</b>				
		<b>Gain-flat power amplifier BA-GF</b>	<b>16-20dbm</b>	<b>Polarization Maintaining</b>		<b>Benchmark</b>	
		<b>Gain-flat line amplifier LA-GF</b>	<b>21-25dbm</b>				
			<b>26-30dbm</b>				

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

PN#	Specification
<b>MP-EDFA-C-14-M-PA-GF-PM</b>	<b>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</b>
<b>MP-EDFA-C-14-B-PA-GF-SM</b>	<b>C-band gain-flattened erbium-doped fiber amplifier, gain-flattened small signal amplifier PA-GF, saturated output</b>

	power: 14dbm, single mode, FC/APC connector, benchtop
MP-EDFA-C-23/2 5-M-BA-GF-SM	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
MP-EDFA-C-26- M-BA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, single mode, FC/APC connector, module
MP-EDFA-C-17/2 0-M-BA-GF-PM	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
MP-EDFA-C-23/2 5-M-BA-GF-PM	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
MP-EDFA-C-26- M-BA-GF-PM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, polarization-maintaining, FC/APC connector, module
MP-EDFA-C-26- B-BA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened power amplifier BA-GF, saturated output power: 26dbm, single mode, FC/APC connector, benchtop
MP-EDFA-C-23/2 5-B-LA-GF-SM	C-band gain-flattened erbium-doped fiber amplifier, gain-flattened line amplifier LA-GF, saturated output power:



	<p><b>23/25dbm, single mode, FC/APC connector, benchtop</b></p>
<p><b>MP-EDFA-C-26-B-LA-GF-SM</b></p>	<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>
<p><b>MP-EDFA-C-17/20-B-LA-GF-PM</b></p>	<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>
<p><b>MP-EDFA-C-23/25-B-LA-GF-PM</b></p>	<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>
<p><b>MP-EDFA-C-26-B-LA-GF-PM</b></p>	<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>