# TEM-F-1268DFB/1~10mW（$TEM_{00}$）

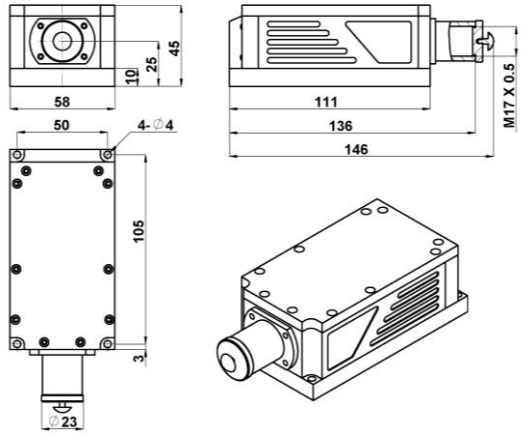
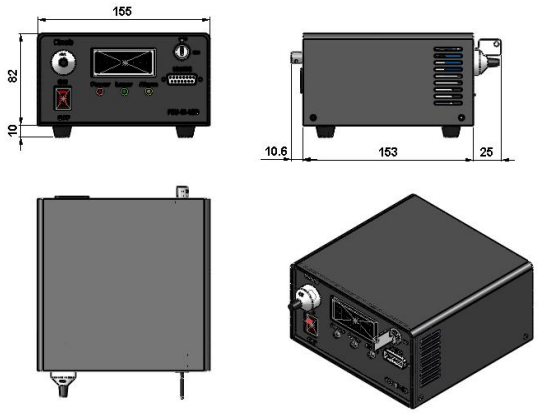
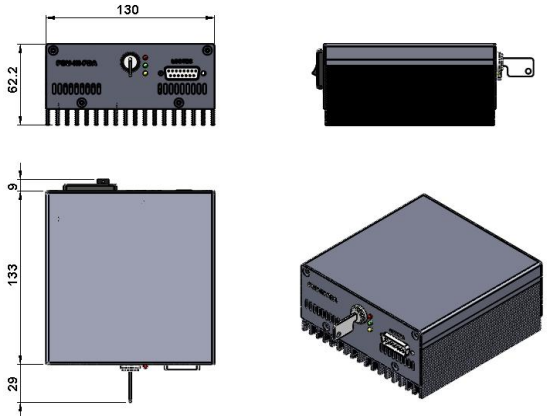
## INFRARED DIODE LASER AT 1268nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1268±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1268DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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# TEM-F-1273DFB/1~10mW（$TEM_{00}$）

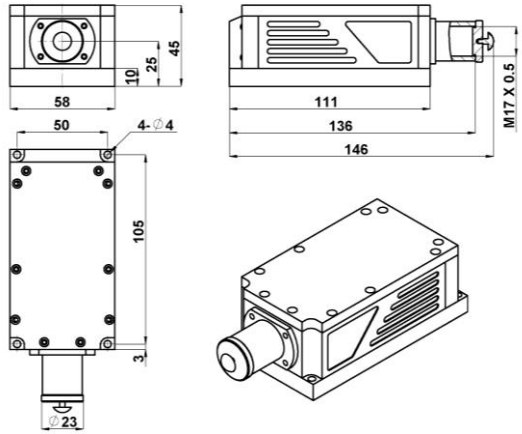
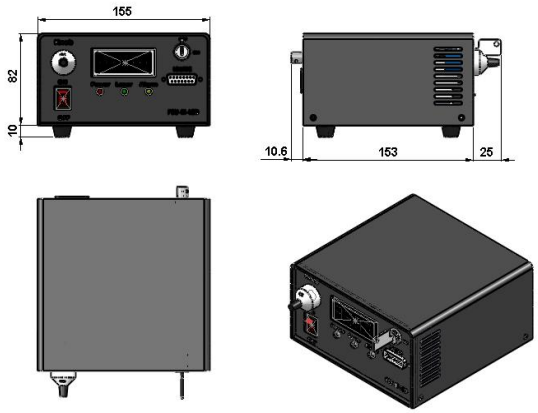
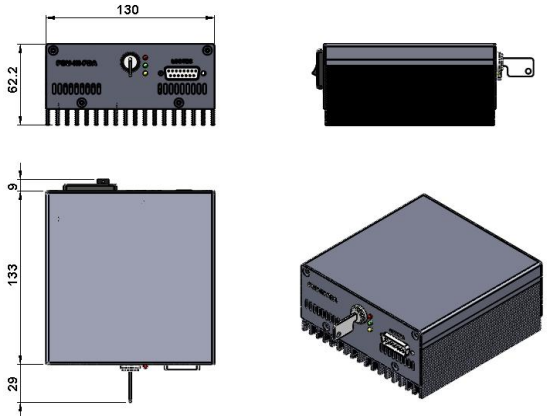
## INFRARED DIODE LASER AT 1273nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1273±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1273DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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**TEM-F-1305DFB**/1~10mW（$TEM_{00}$）

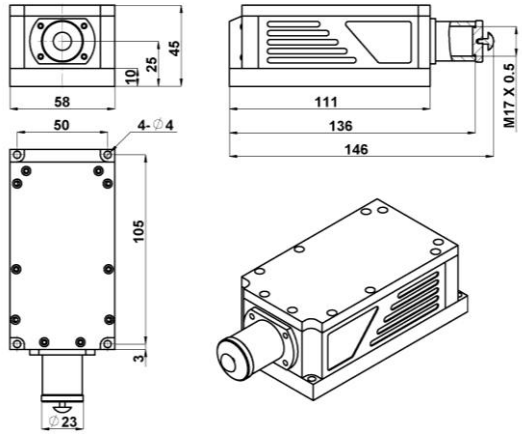
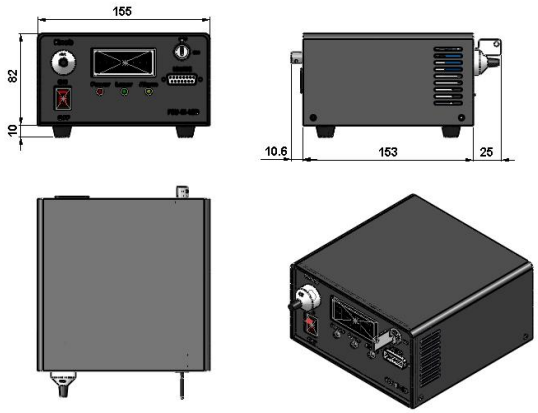
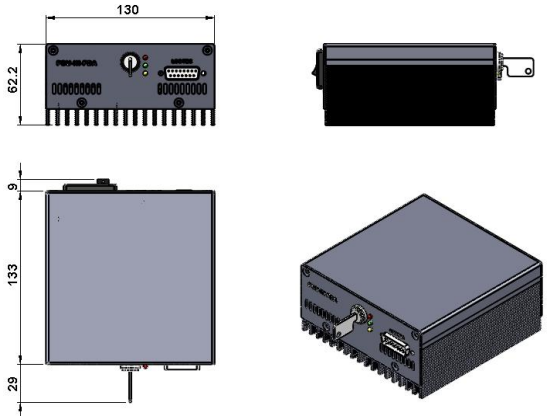
## INFRARED DIODE LASER AT 1305nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1305±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1305DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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**TEM-F-1310DFB**/1~10mW（$TEM_{00}$）

## INFRARED DIODE LASER AT 1310nm

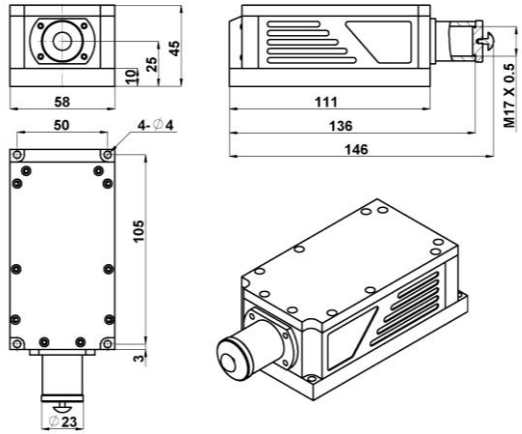
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1310±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

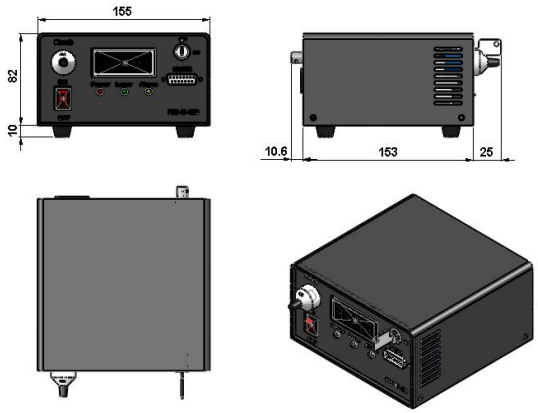

Note: The laser head needs to be used on a heat sink with good heat dissipation.

### TEM-F-1310DFB



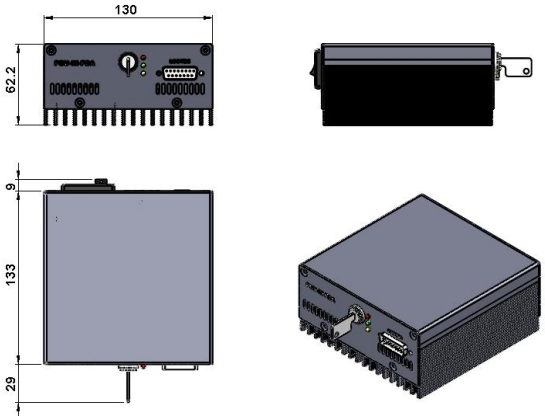

**146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg**

### PSU-III-LED




**188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg**

### PSU-III-FDA




**171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg**

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# TEM-F-1312DFB/1~10mW（$TEM_{00}$）

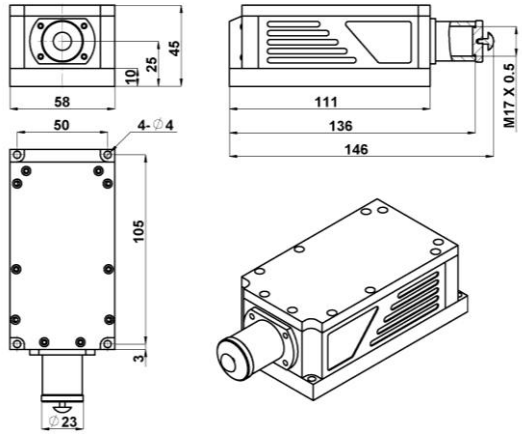
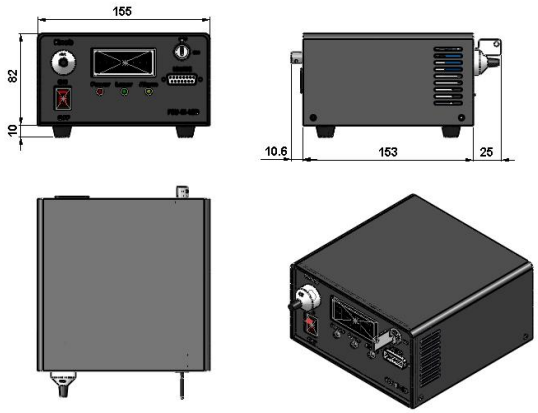
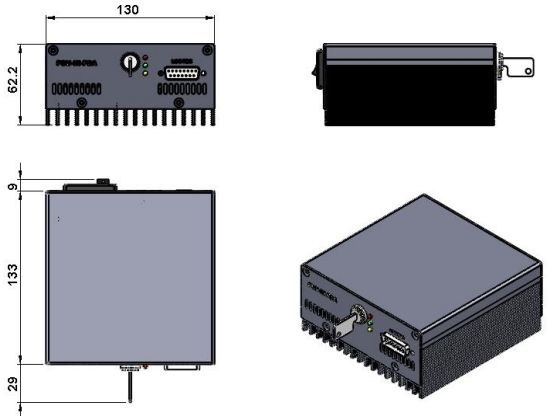
## INFRARED DIODE LASER AT 1312nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1312±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1312DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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# TEM-F-1368DFB/1~10mW（$TEM_{00}$）

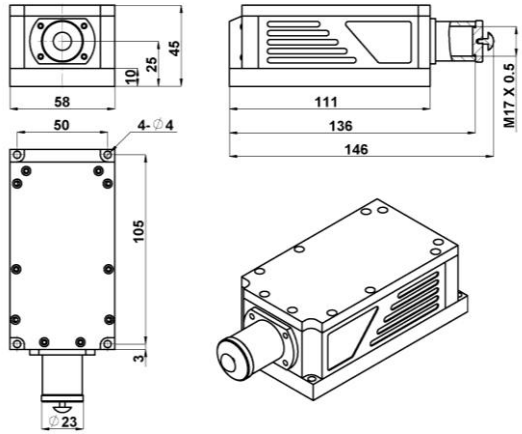
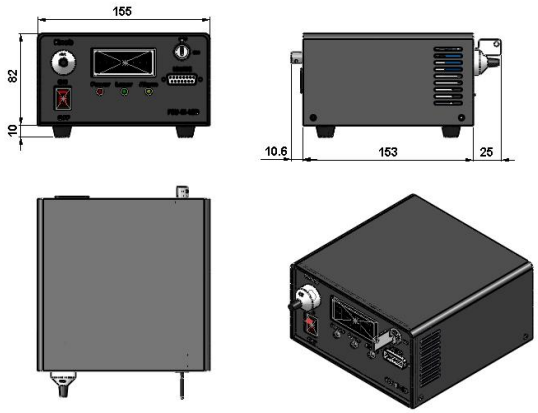
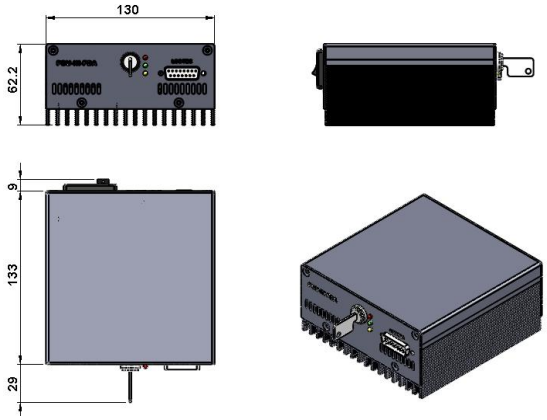
## INFRARED DIODE LASER AT 1368nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1368±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1368DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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# TEM-F-1392DFB/1~10mW（$TEM_{00}$）

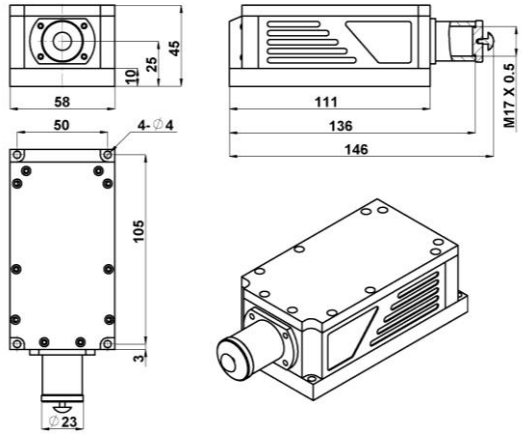
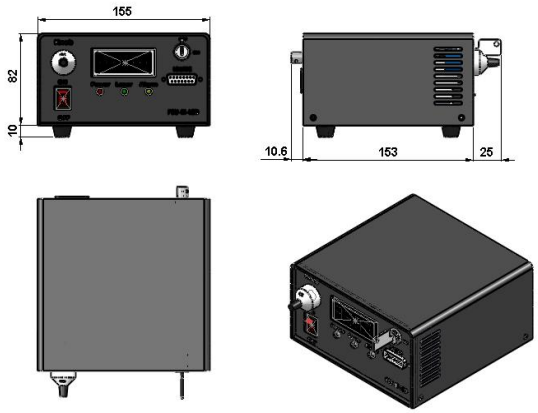
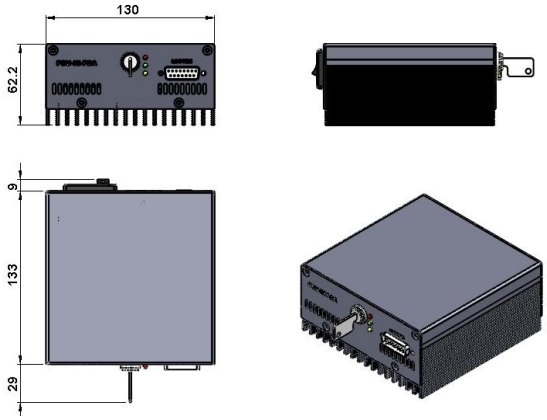
## INFRARED DIODE LASER AT 1392nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1392±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1392DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
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**TEM-F-1450DFB**/1~20mW（$TEM_{00}$）

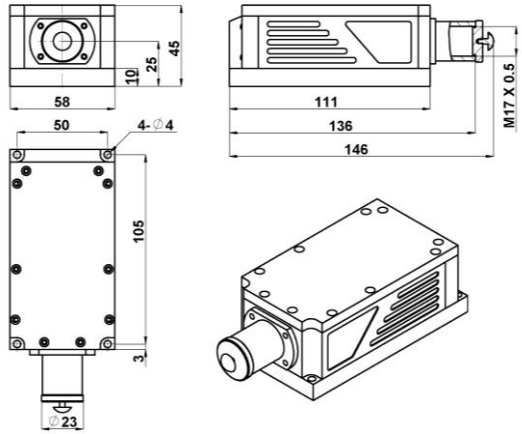
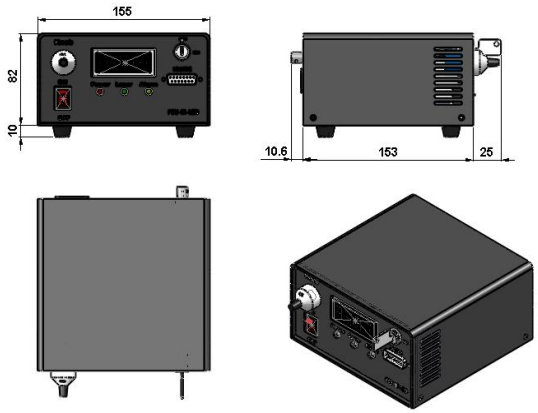
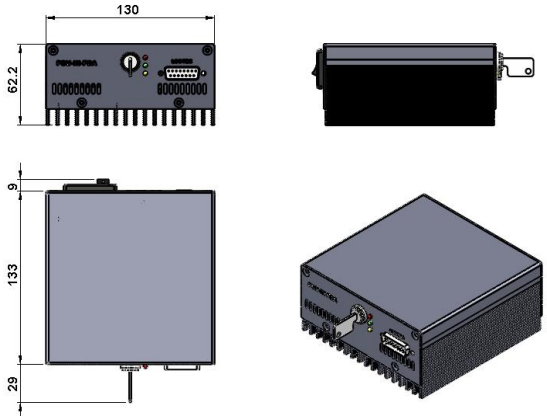
## INFRARED DIODE LASER AT 1450nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1450±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,20 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1450DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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**TEM-F-1470DFB**/1~20mW（$TEM_{00}$）

## INFRARED DIODE LASER AT 1470nm

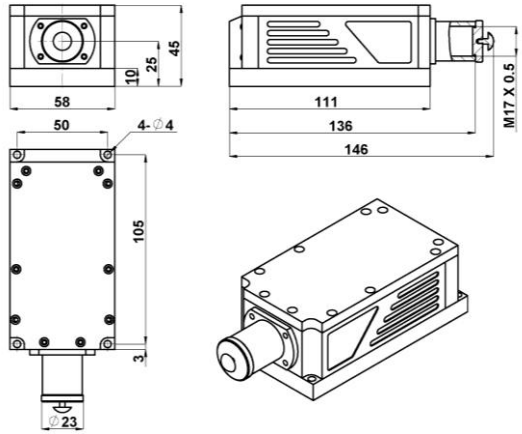
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1470±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,20 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

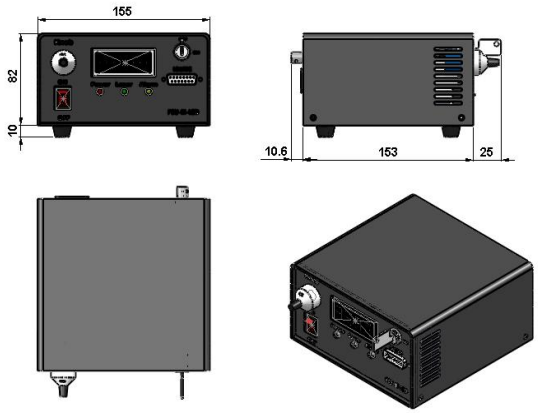

Note: The laser head needs to be used on a heat sink with good heat dissipation.

### TEM-F-1470DFB



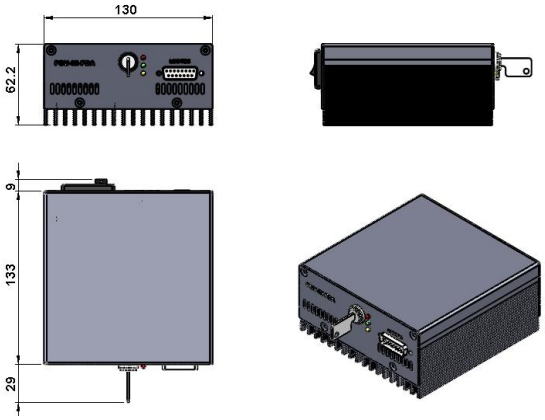

**146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg**

### PSU-III-LED




**188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg**

### PSU-III-FDA




**171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg**

Website: http://www.cnilaser.com E-mail: sales@cnilaser.com Tel: +86-431-85603799 Fax: +86-431-87020258

**TEM-F-1490DFB**/1~20mW（$TEM_{00}$）

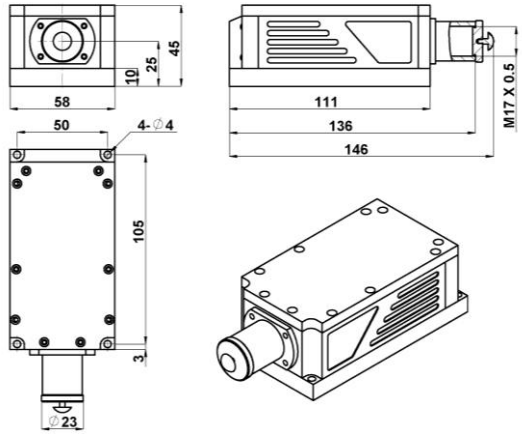
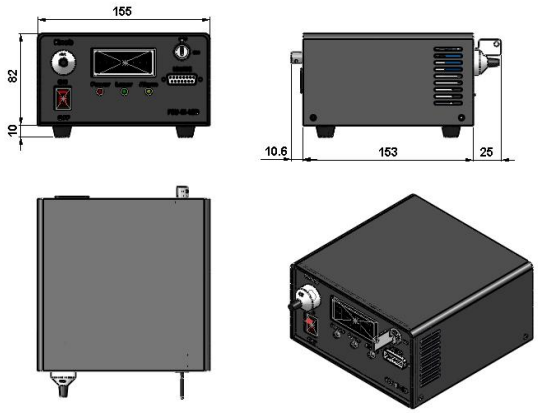
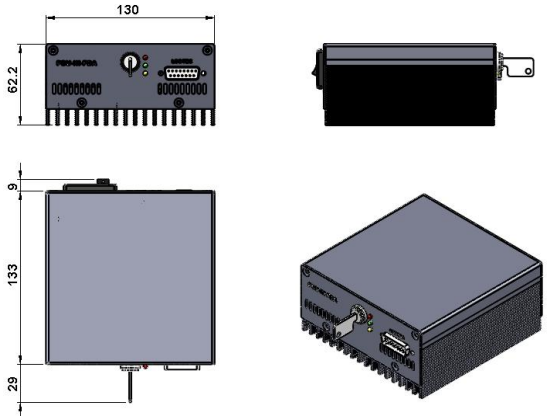
## INFRARED DIODE LASER AT 1490nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1490±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,20 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1490DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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**TEM-F-1512DFB**/1~10mW（$TEM_{00}$）

## INFRARED DIODE LASER AT 1512nm

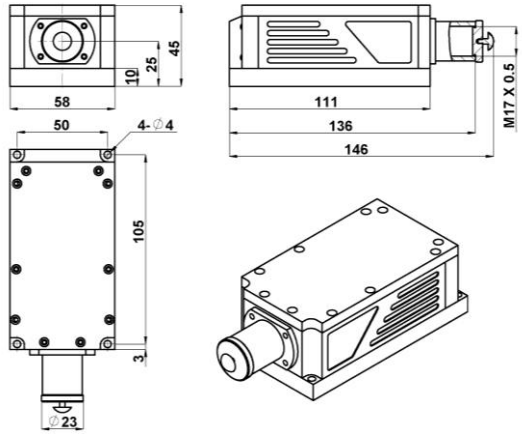
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1512±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

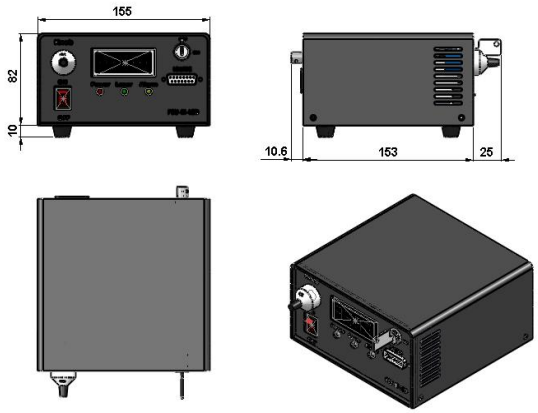

Note: The laser head needs to be used on a heat sink with good heat dissipation.

### TEM-F-1512DFB



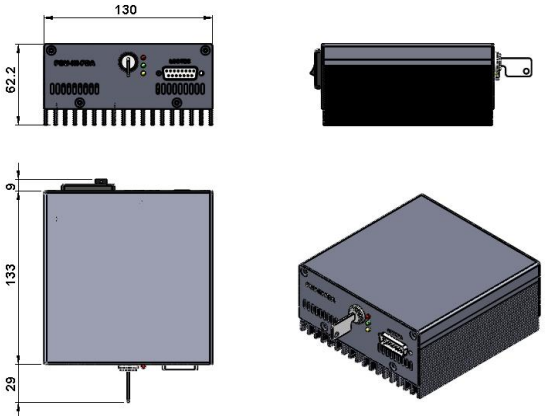

146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg

### PSU-III-LED




188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg

### PSU-III-FDA




171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg

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**TEM-F-1532DFB**/1~20mW（$TEM_{00}$）

## INFRARED DIODE LASER AT 1532nm

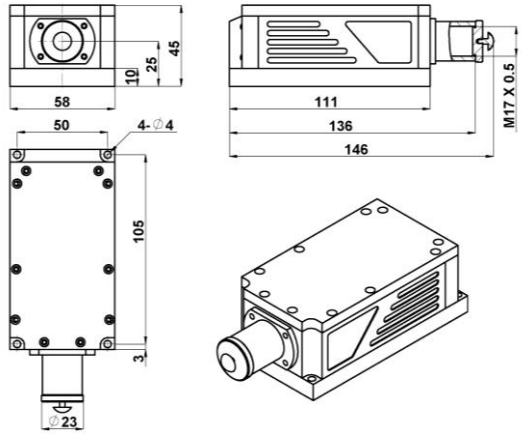
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1532±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,20 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

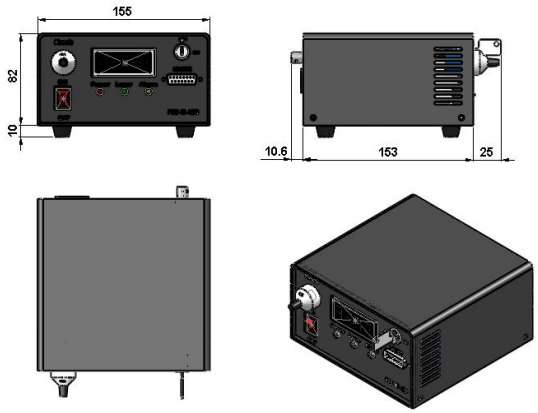

Note: The laser head needs to be used on a heat sink with good heat dissipation.

### TEM-F-1532DFB



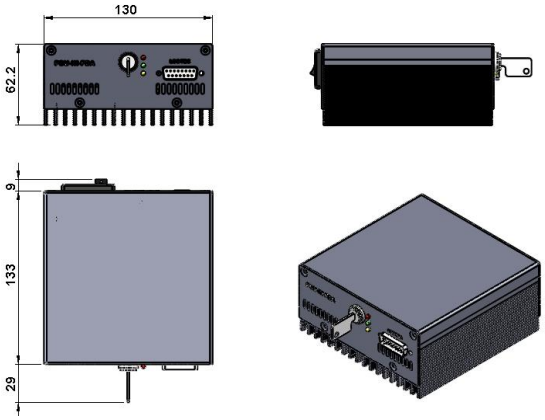

**146 (L) ×58(W) ×45 (H) mm³, 0.7kg**

### PSU-III-LED




**188.6 (L) ×155(W) ×92 (H) mm³, 1.5kg**

### PSU-III-FDA




**171(L) ×130(W) ×62.2 (H) mm³, 1.2kg**

Website: http://www.cnilaser.com E-mail: sales@cnilaser.com Tel: +86-431-85603799 Fax: +86-431-87020258

**TEM-F-1540DFB**/1~20mW（$TEM_{00}$）

## INFRARED DIODE LASER AT 1540nm

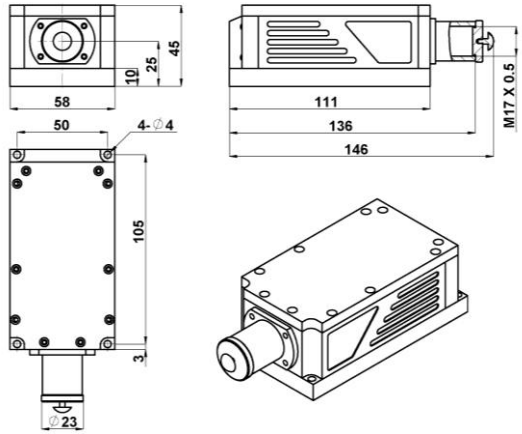
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1540±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,20 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

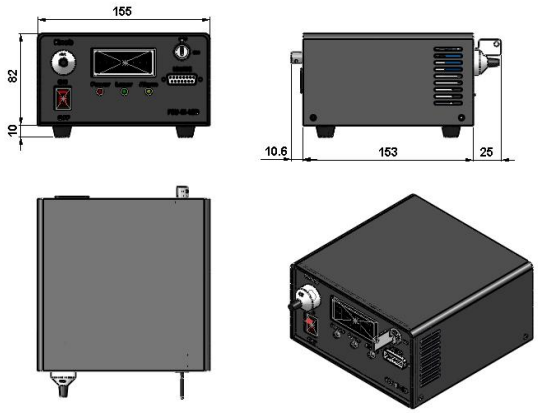

Note: The laser head needs to be used on a heat sink with good heat dissipation.

### TEM-F-1540DFB



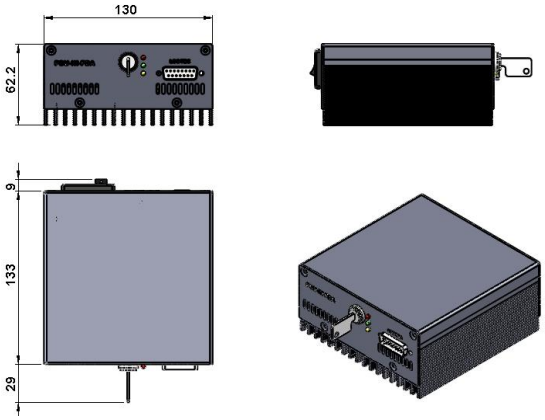

**146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg**

### PSU-III-LED




**188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg**

### PSU-III-FDA




**171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg**

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**TEM-F-1550DFB**/1~30mW（$TEM_{00}$）

## INFRARED DIODE LASER AT 1550nm

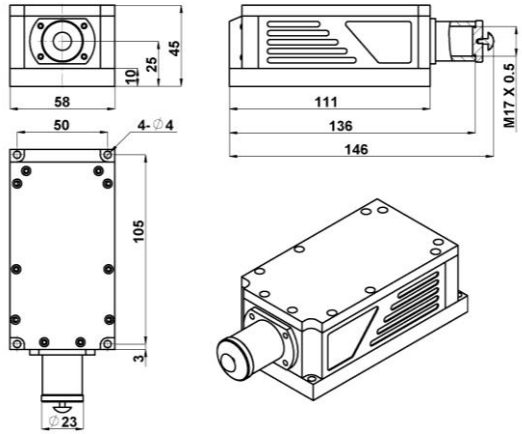
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1550±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,30 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth | 3MHz (200kHz, optional) | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

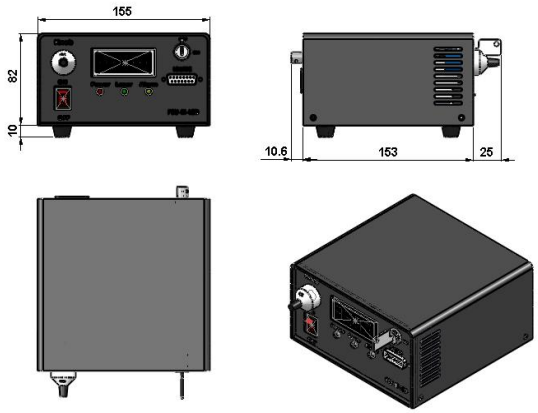

Note: The laser head needs to be used on a heat sink with good heat dissipation.

### TEM-F-1550DFB



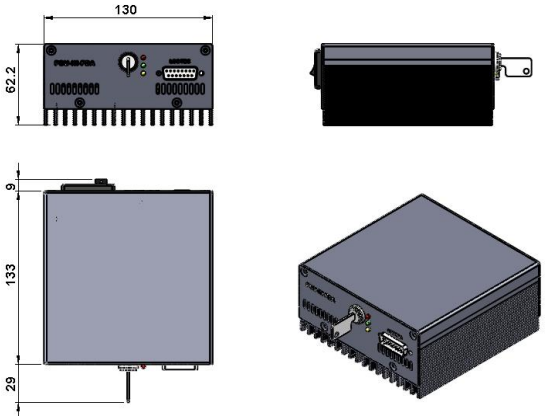

146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg

### PSU-III-LED




188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg

### PSU-III-FDA




171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg

Website: http://www.cnilaser.com E-mail: sales@cnilaser.com Tel: +86-431-85603799 Fax: +86-431-87020258

**TEM-F-1560DFB**/1~20mW（$TEM_{00}$）

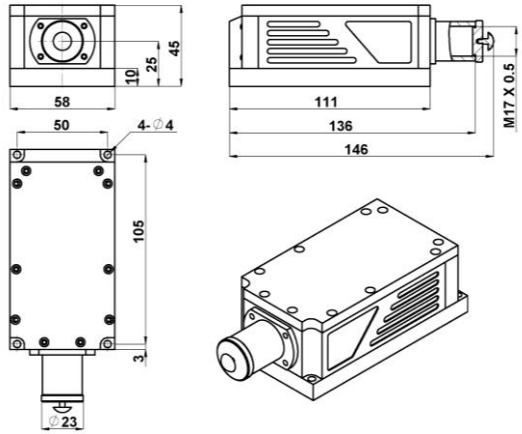
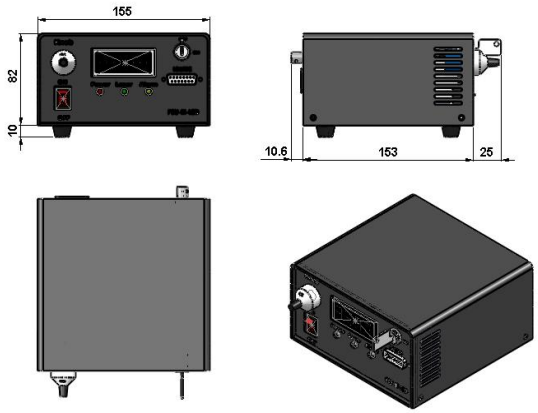
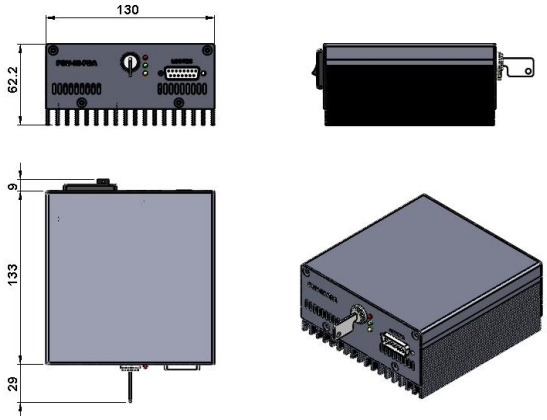
## INFRARED DIODE LASER AT 1560nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1560±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,20 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1560DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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# TEM-F-1567DFB/1~10mW（$TEM_{00}$）

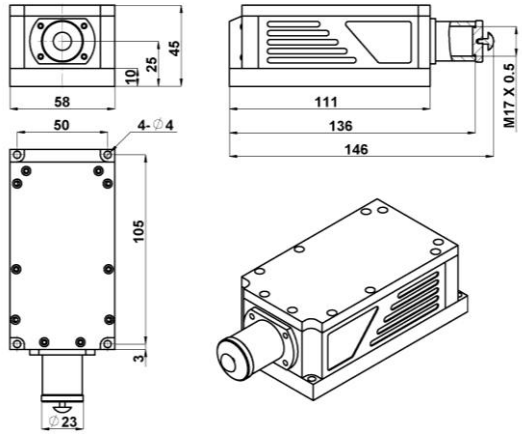
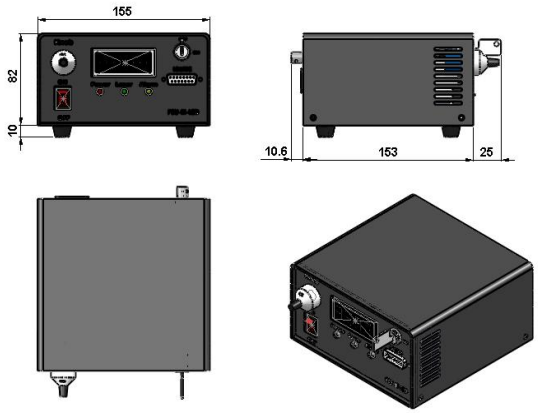
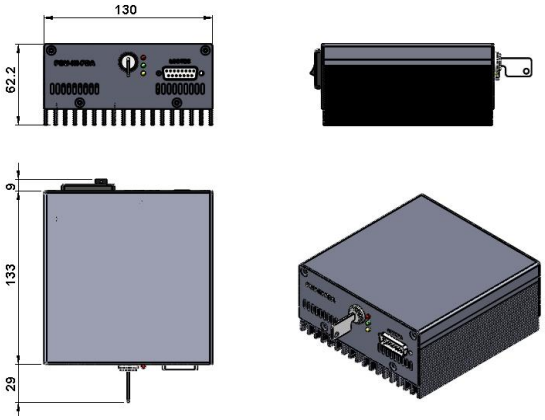
## INFRARED DIODE LASER AT 1567nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1567±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1567DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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**TEM-F-1573DFB**/1~20mW（$TEM_{00}$）

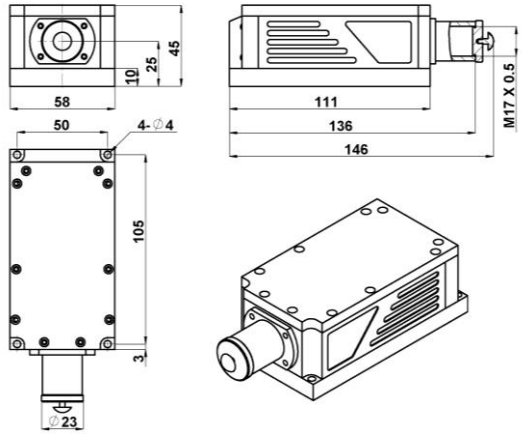
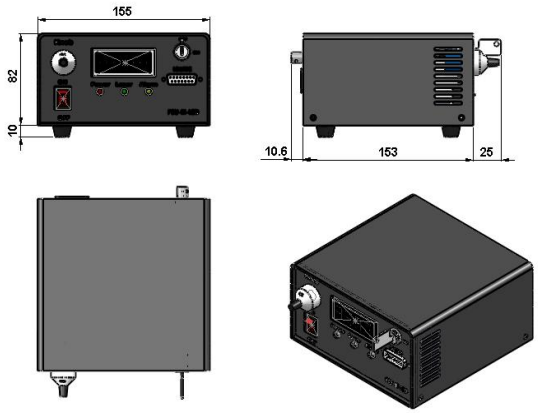
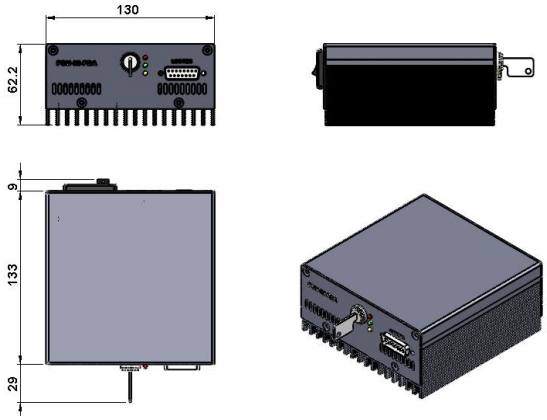
## INFRARED DIODE LASER AT 1573nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1573±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,20 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1573DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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**TEM-F-1578DFB**/1~10mW（$TEM_{00}$）

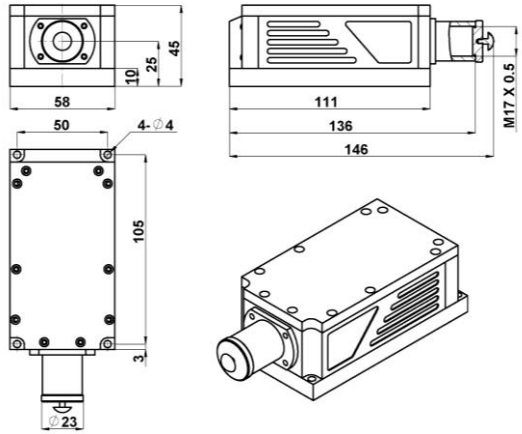
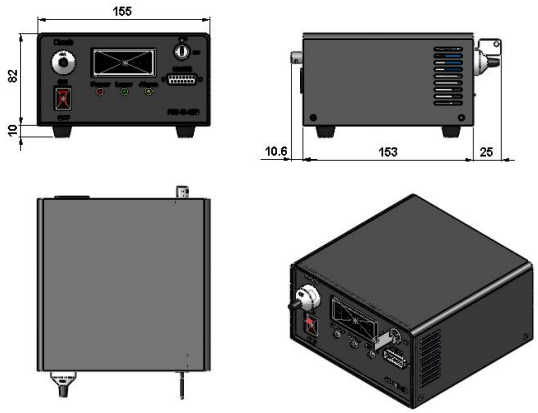
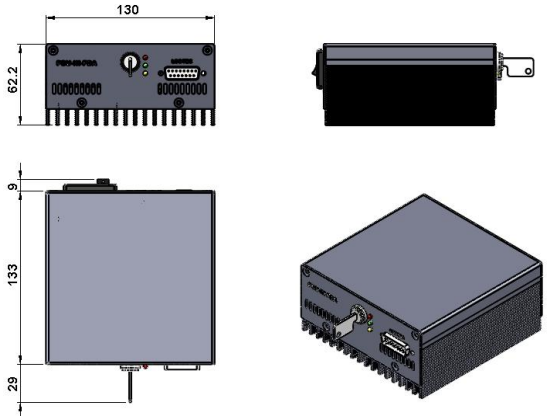
## INFRARED DIODE LASER AT 1578nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1578±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1578DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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# TEM-F-1580DFB/1~10mW（$TEM_{00}$）

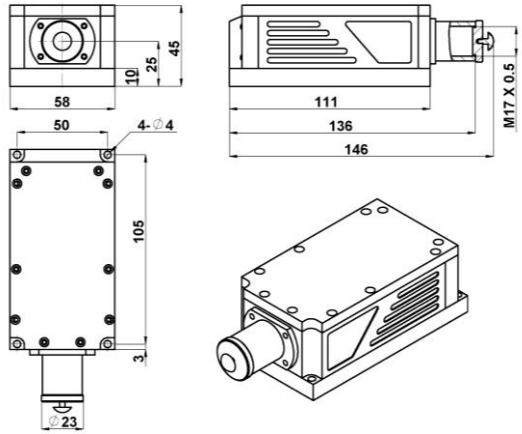
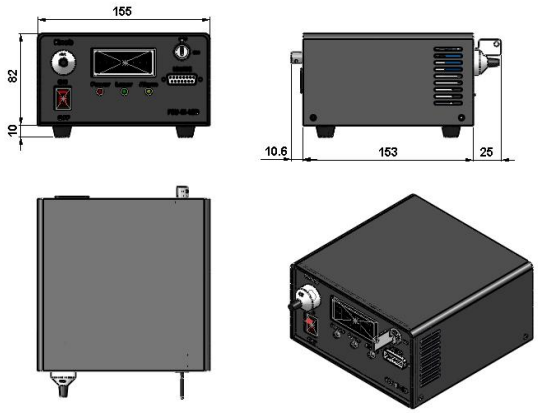
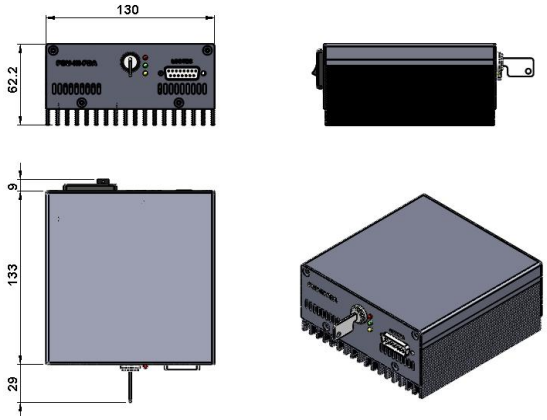
## INFRARED DIODE LASER AT 1580nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1580±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1580DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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**TEM-F-1590DFB**/1~20mW（$TEM_{00}$）

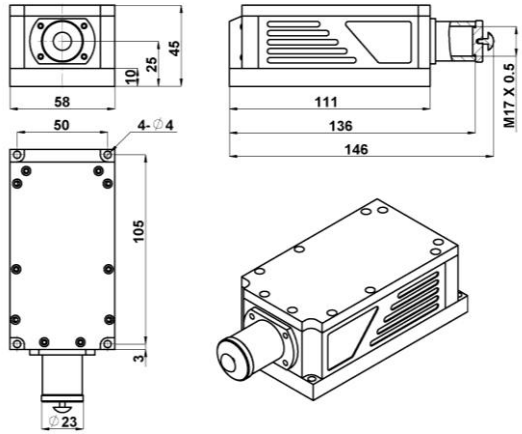
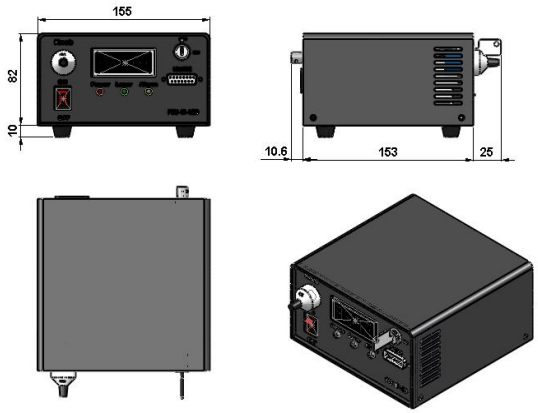
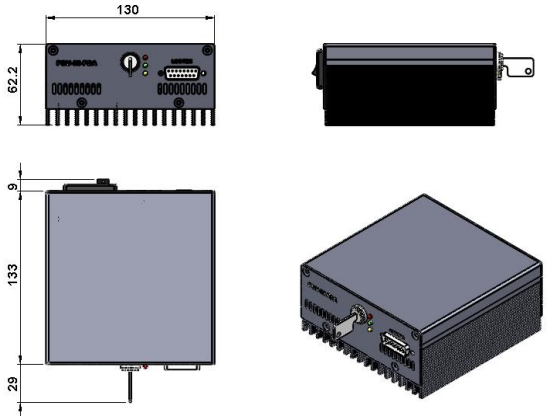
## INFRARED DIODE LASER AT 1590nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1590±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,20 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1590DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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**TEM-F-1610DFB**/1~20mW（$TEM_{00}$）

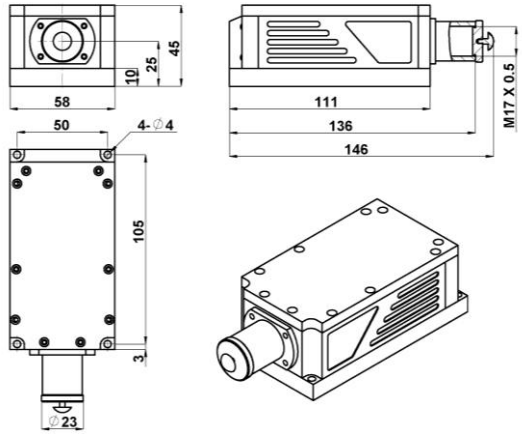
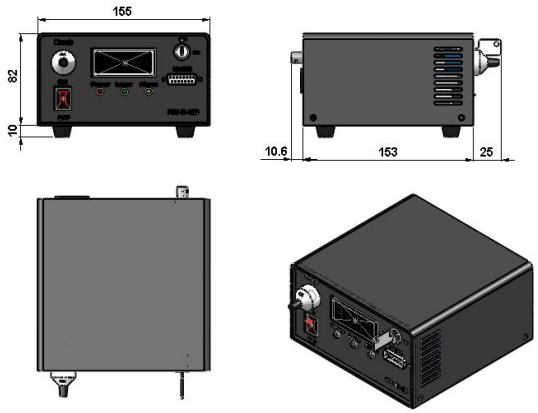
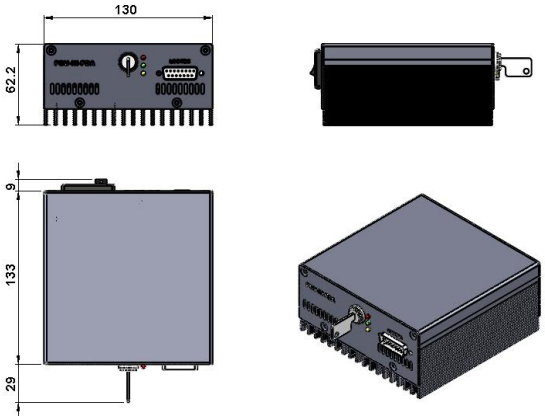
## INFRARED DIODE LASER AT 1610nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1610±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,20 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1610DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

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**TEM-F-1620DFB**/1~10mW（$TEM_{00}$）

## INFRARED DIODE LASER AT 1620nm

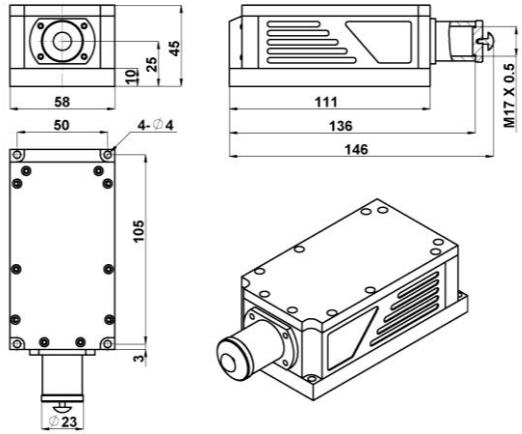
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1620±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

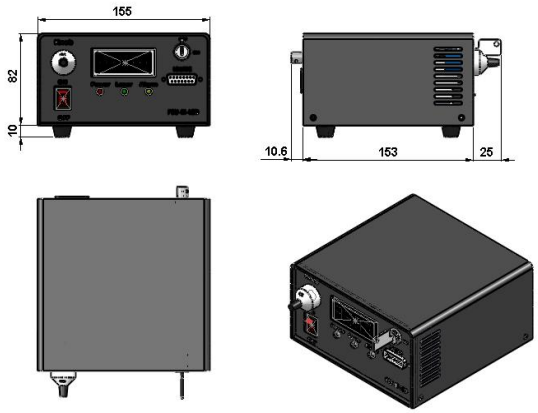

Note: The laser head needs to be used on a heat sink with good heat dissipation.

### TEM-F-1620DFB



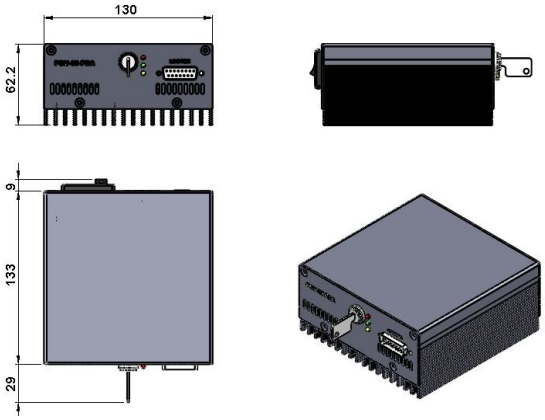

146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg

### PSU-III-LED




188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg

### PSU-III-FDA




171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg

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**TEM-F-1625DFB**/1~10mW（$TEM_{00}$）

## INFRARED DIODE LASER AT 1625nm

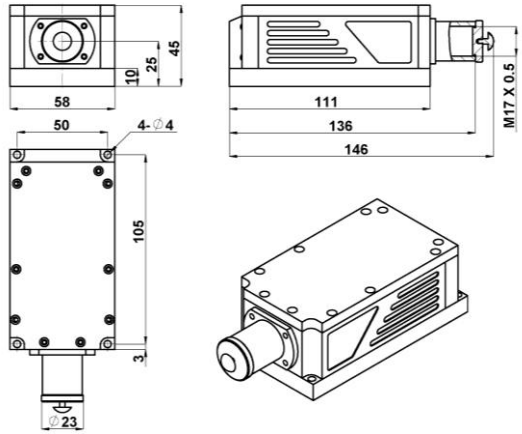
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1625±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

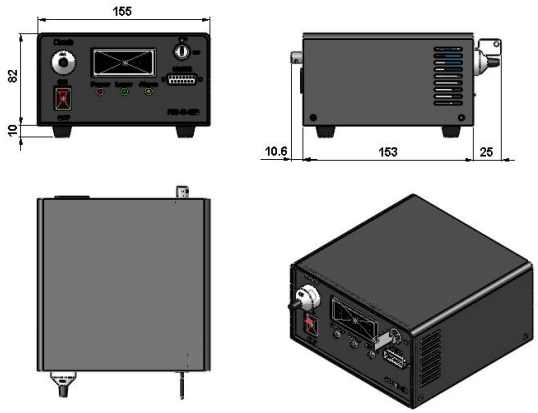

Note: The laser head needs to be used on a heat sink with good heat dissipation.

### TEM-F-1625DFB



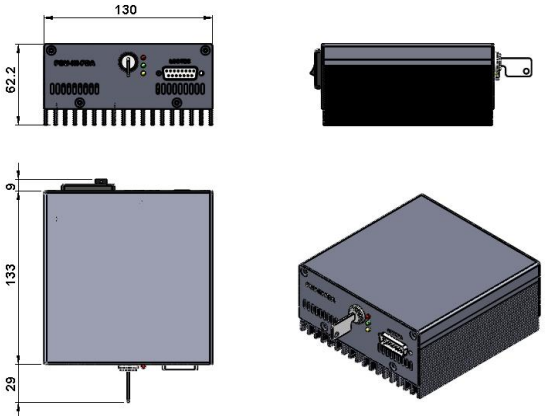

**146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg**

### PSU-III-LED




**188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg**

### PSU-III-FDA




**171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg**

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**TEM-F-1627DFB**/1~10mW（$TEM_{00}$）

## INFRARED DIODE LASER AT 1627nm

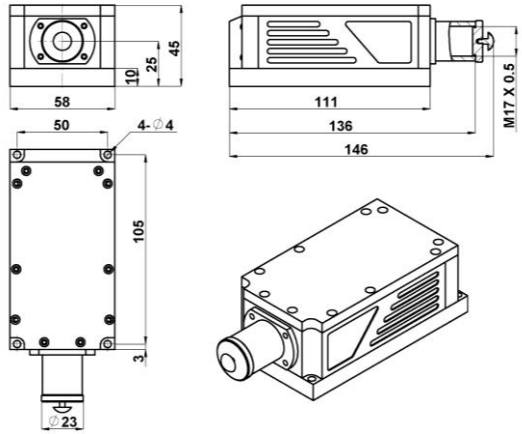
It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1627±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |

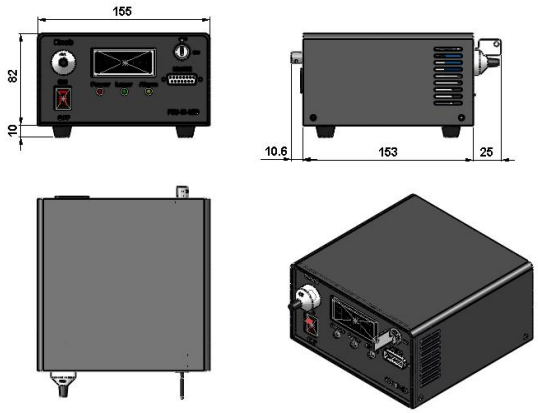

Note: The laser head needs to be used on a heat sink with good heat dissipation.

### TEM-F-1627DFB



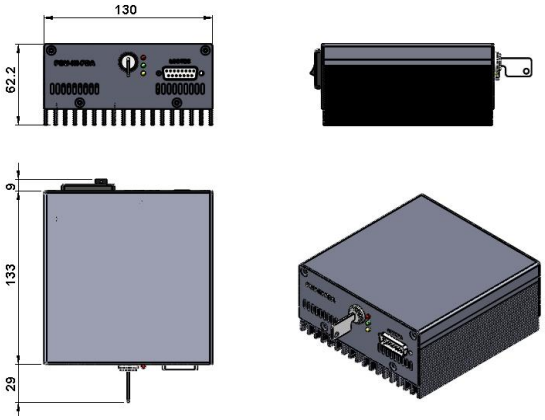

**146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg**

### PSU-III-LED




**188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg**

### PSU-III-FDA




**171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg**

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# TEM-F-1651DFB/1~10mW（$TEM_{00}$）

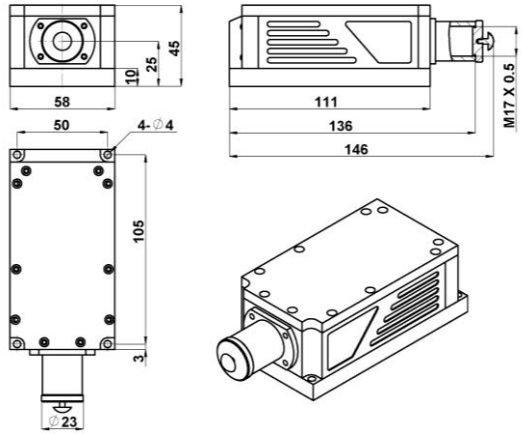
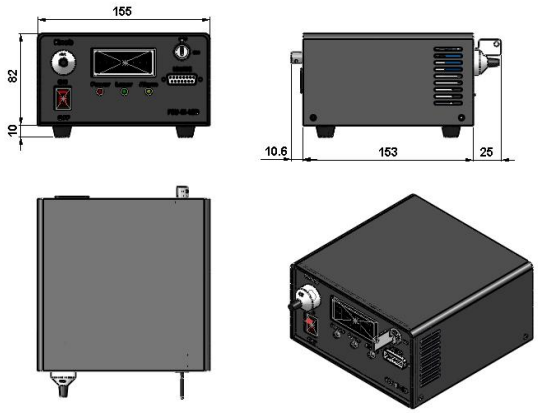
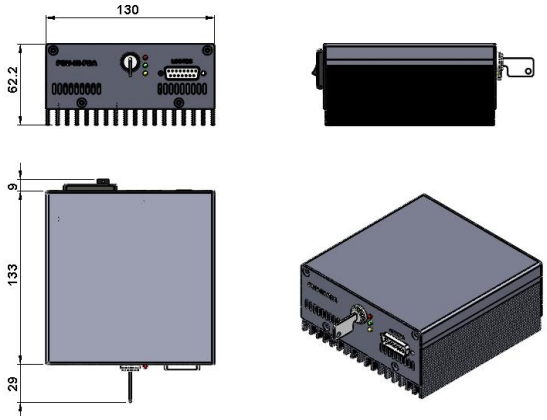
## INFRARED DIODE LASER AT 1651nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1651±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1651DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
| 146 (L) ×58(W) ×45 (H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg |

Website: http://www.cnilaser.com E-mail: sales@cnilaser.com Tel: +86-431-85603799 Fax: +86-431-87020258

**TEM-F-1653DFB**/1~10mW（$TEM_{00}$）

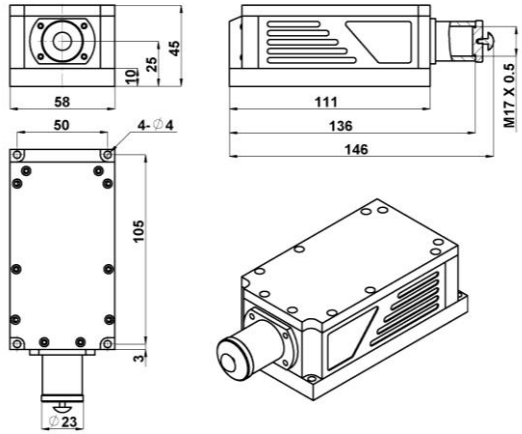
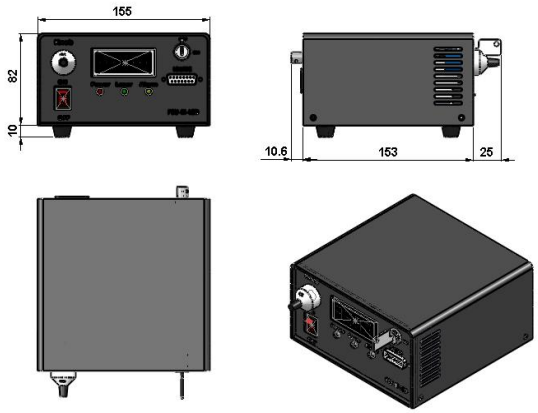
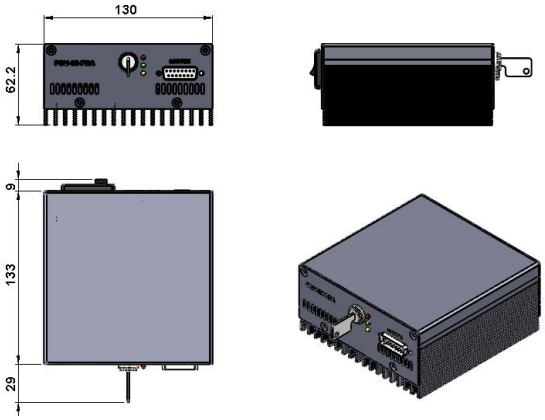
## INFRARED DIODE LASER AT 1653nm

It features $TEM_{00}$ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | 1653±2 | |
| Operating mode | CW | |
| Output power (mW) | >1,2,3……,10 | |
| Power stability (rms, over 4 hours) | <2%, <3%, <5% | |
| Transverse mode | $TEM_{00}$ | |
| Ellipticity | >0.95 | |
| $M^2$ factor | <1.1 | |
| Spectral linewidth (MHz) | ~3 | |
| Beam diameter at the aperture ($1/e^2$,mm) | ~1.0 | |
| Beam divergence, full angle (mrad) | <1.5 | |
| SMSR (dB) | 35 | |
| Warm-up time (minutes) | <5 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (℃) | 25+/-3 | |
| Power supply (85-264VAC) | PSU-III-LED | PSU-III-FDA |
| TTL / Analog modulation | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional | |
| Expected lifetime (hours) | 10000 | |
| Warranty | 1 year | |


Note: The laser head needs to be used on a heat sink with good heat dissipation.

| TEM-F-1653DFB | PSU-III-LED | PSU-III-FDA |
|---|---|---|
|  |  |  |
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