

### 05-LPL

Power supply for standard He-Ne laser head (CDRH compliant).



- Compact laser power supply.
- Low ripple, high stability, and constant current.
- Protection circuit can automatically shut down in case of frequent arc discharges, output-terminal open, output-terminal short or extremely low input voltage.

#### Common Specifications

|                       |            |               |
|-----------------------|------------|---------------|
| Input Voltage         | 100VAC±10% |               |
| Input Frequency       | 50 – 60Hz  |               |
| Current Ripple (RMS)  | <0.71%     |               |
| Conversion Efficiency | >75%       |               |
| Delay time of CDRH    | 3 – 7 secs |               |
| Temperature Range     | Operation  | -20°C – +40°C |
|                       | Storage    | -40°C – +80°C |
| Ambient Humidity      | Operation  | 0% – 90%      |
|                       | Storage    | 0% – 100%     |
| Altitude              | Operation  | 0 – 3,000m    |
|                       | Storage    | 0 – 5,800m    |
| Shock                 | 25G/11msec |               |

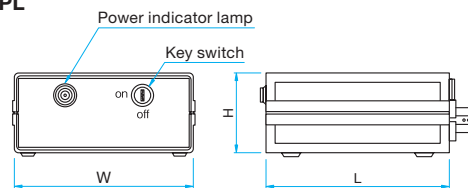
#### Attention

- ▶ 100VAC voltage intended for use in Japan, if used abroad, contact our Sales Division for more information.
- ▶ As imported products, prices and lead times are subject to change.

#### Outline Drawing

(Units: mm)

#### 05-LPL



| Part Number    | Width W [mm] | Length L [mm] | Height H [mm] | Output Current [mA] | Output Voltage [VDC] | Drive Voltage [kVDC] | Weight [kg] |
|----------------|--------------|---------------|---------------|---------------------|----------------------|----------------------|-------------|
| 05-LPL-900-040 | 129          | 133           | 61            | 4                   | 1,100 – 1,500        | >8                   | 1           |
| 05-LPL-901-040 | 129          | 133           | 61            | 4                   | 1,450 – 2,050        | >8                   | 1           |
| 05-LPL-911-065 | 129          | 133           | 61            | 6.5                 | 1,700 – 2,100        | >10                  | 1           |
| 05-LPL-902-065 | 129          | 133           | 61            | 6.5                 | 1,850 – 2,450        | >10                  | 1           |
| 05-LPL-951-065 | 161          | 241           | 54            | 6.5                 | 2,500 – 3,100        | >11                  | 1.8         |
| 05-LPL-951-070 | 161          | 241           | 54            | 7                   | 2,500 – 4,100        | >11                  | 1.8         |

### 05-STP

Stabilized He-Ne laser, designed in aluminum housing, consists of a laser head with oscillation wavelength of 632.8nm, a laser tube, ballast resistor and electrical wiring.



- Stabilized wavelength with low frequency fluctuation (10MHz or less).
- 1.8 meter length cable connected.
- Compliance with the provisions of CDRH (U.S. Safety Standard).

#### Common Specifications

|  |                                       |
|--|---------------------------------------|
| Wavelength                               | 632.8nm                               |
| Transverse Mode                          | TEM <sub>00</sub>                     |
| Polarization                             | Linear                                |
| Extinction Ratio                         | >5000:1                               |
| Noise (RMS)                              | 0.1% (30Hz – 10MHz)                   |
| Frequency Stability                      | ±1.0MHz(1min)/±2.0MHz(1h)/±3.0MHz(8h) |
| Power Stability                          | ±0.2% (1min/1h/8h)                    |
| Temperature Dependence                   | 0.5MHz/°C                             |
| Time to Stabilization                    | <10 minutes                           |
| Possible Stabilization Temperature Range | 15°C – 30°C                           |
| Input Voltage                            | 100VAC±10%                            |
| Input Frequency                          | 50 – 60Hz                             |

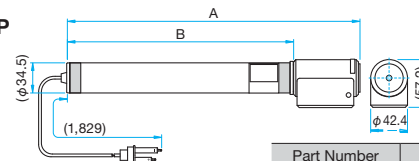
#### Attention

- ▶ Power supply (05-LPL series: detachable model) is not included, please purchase separately.
- ▶ As imported products, prices and lead times are subject to change.

#### Outline Drawing

(Units: mm)

#### 05-STP



| Part Number | A     | B     |
|-------------|-------|-------|
| 05-STP-910  | 259.1 | 176.8 |
| 05-STP-912  | 302   | 219.7 |

| Part Number | CW Output Power TEM <sub>00</sub> [mW] | Beam Diameter 1/e <sup>2</sup> [mm] | Beam Divergence [mrad] | Operation Current [mA] | Operation Voltage [V±100] | IEC Class | Power Supply   |
|-------------|--|-------------------------------------|------------------------|------------------------|---------------------------|-----------|----------------|
| 05-STP-910  | 0.5 – 0.95                             | 0.48                                | 1.7                    | 4                      | 1,220                     | 2         | 05-LPL-900-040 |
| 05-STP-912  | 1                                      | 0.54                                | 1.5                    | 4                      | 1,600                     | 3R        | 05-LPL-901-040 |

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