

Es series CO2 Laser Power Supply

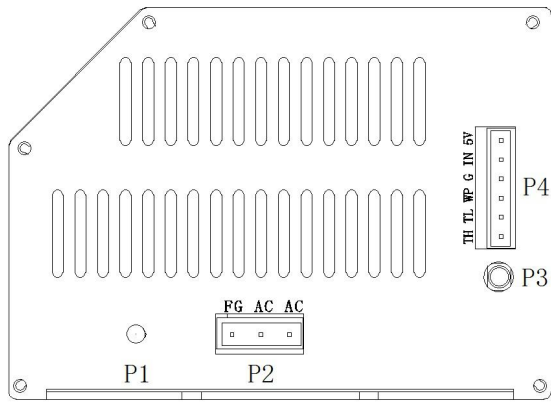
一、 Main features:

1. Initiative PFC function, AC90-250V wide input voltage range, universal for all countries voltage.
2. Special design for outer shell, more beautiful appearance, better heat dissipation.
3. Improved current control mode, more stable laser, better compatibility, more adaptable for different kinds of laser tubes.
4. Simple power control, user can control laser with high or low level signal.
5. With test button, easy to test laser tube and power supply.
4. Small size outer shell, suitable for installing on the beam of cutting bed.

二、 Main specifications:

| Item | | Es80 | | |
|---------------------------------|--|-------------|-------------|-------------|
| Input | Input voltage | AC90-250V | | |
| | AC frequency | 47---63Hz | | |
| | Max input power | 600W | | |
| | Max input current (when 90V input) | 5.5A | | |
| Output | Max output voltage | 40KV | | |
| | Max output current | 28mA | | |
| Efficiency | ≥90% (full load) | | | |
| MTBF(mean time between failure) | ≥10000hours | | | |
| Response speed | ≤1mS (the time from the signal is given to output current reaches 90% of set current) | | | |
| Withstand voltage | Input-output, input-shell:AC1500V 10mA 60s | | | |
| Working environment | Temperature (-10~40) °C , relative humidity:≤90% | | | |
| Cooling | Force air cooling | | | |
| Network cable | Length(M) | 1.5M/3M | 1.5M/3M | 1.5M/3M |
| Dimension | L*W*H(mm) | 235*144*104 | 278*144*104 | 330*144*104 |
| Weight | Net weight (KG) | 2.15kg | 2.45kg | 3.2kg |
| Color | Silver grey | | | |

三、 Terminal connection



| | |
|----|---------|
| P1 | 高压指示灯 |
| FG | 接地 |
| P2 | 交流输入 |
| AC | |
| P3 | 测试按钮 |
| TH | 高电平控制输入 |
| TL | 低电平控制输入 |
| WP | 水保护 |
| G | 控制地 |
| P4 | 功率控制输入 |
| IN | |
| 5V | 5V输出 |

P1 High voltage indicator light P2 FG: ground connection; AC: input P3 Test button
P4 terminal definition

| | | |
|----|---------------|--|
| TH | Input signal | Laser on/off control, laser on when high level($\geq 3V$), laser off when low level($\leq 0.3V$) |
| TL | Input signal | Laser on/off control, laser off when high level($\geq 3V$), laser on when low level($\leq 0.3V$) |
| WP | Input signal | Laser on/off control, laser off when high level($\geq 3V$), laser on when low level($\leq 0.3V$) |
| G | Signal ground | This terminal must be connected with outer shell and control board of machine properly. |
| IN | Power signal | Laser power control terminal, control with 0-5V analog signal or 5V PWM signal |
| 5V | Output | 5V output, max output current is 20mA |

四、Installation size:

