

# JPT

## 规格指标/ Specification

| 参数单元 Parameter Unit                    | 参数 Parameter      |                   |
|----------------------------------------|-------------------|-------------------|
| 系列型号<br>Product Model                  | YDFLP-C-20-M7-S-R | YDFLP-C-30-M7-S-R |
| M <sup>2</sup>                         | <1.3              |                   |
| 输出铝缆长度<br>Delivery Cable Length        | 2 m               |                   |
| 平均输出功率<br>Nominal Average Output Power | >20 W             | >30 W             |
| 最大脉冲能量<br>Maximum Pulse Energy         | 0.8 mJ            |                   |
| 频率可调范围<br>Pulse Repetition Rate Range  | 1~4000 kHz        |                   |
| 脉冲宽度<br>Pulse Duration                 | 2~350 ns          |                   |
| 输出功率不稳定性<br>Output Power Stability     | <5 %              |                   |
| 冷却方式<br>Cooling Method                 | 风冷 Air Cooled     |                   |
| 供给电压<br>Supply DC Voltage (VDC)        | 24 V              |                   |
| 需求电流<br>Current Consumption            | <5 A              | <6 A              |
| 环境供给电流<br>Environmental Supply Current | >5 A              | >6 A              |
| 功耗@20°C<br>Power@20°C                  | <120 W            | <144 W            |
| 中心波长<br>Central Emission Wavelength    | 1064 nm           |                   |
| 谱宽@3dB<br>Emission Bandwidth@3dB       | <15 nm            |                   |
| 偏振方向<br>Polarization                   | 随机 Random         |                   |
| 光束直径<br>Output Beam Diameter           | 7±0.5 mm          |                   |
| 功率调节范围<br>Output Power Tuning Range    | 0~100 %           |                   |
| 工作温度范围<br>Operation Temperature        | 0~40 °C           |                   |
| 储存温度范围<br>Storage Temperature          | -10~60 °C         |                   |
| 净重<br>N.W.                             | 4.4 kg            | 4.5 kg            |
| 尺寸(LxWxH)<br>Size                      | 245x200x65 mm     |                   |

www.jptoe.com

# JPT

## M7 20W/30W

### 产品描述/ Product Description

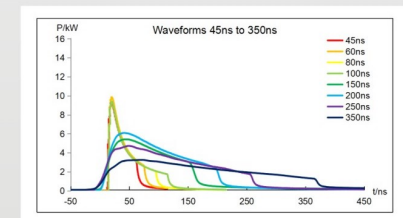
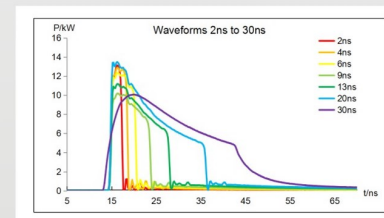
杰普特M7系列是采用直接电调制半导体激光器作为种子源(MOPA)方案的高功率光纤激光器,具有完美的激光特性和良好的脉冲形状控制能力。与调Q光纤激光器相比,MOPA光纤激光器脉冲频率和脉冲宽度是独立可控的,通过两项激光参数调整搭配,可实现恒定的高峰值功率输出以及能适用于更广泛的标刻基材。此外,把调Q激光器的不可能变成MOPA的可能,更高的输出功率使其在高速打标的应用中优势尤为突出。

JPT M7 series high powered pulsed fiber lasers make use of master oscillator power amplifier (MOPA) configuration, and show excellent laser performance as well as high level of temporal pulse shaping controllability. As compared to the Q-switching technology, the pulse repetition frequency (PRF) and pulse width can be controlled independently in MOPA configuration, through adjusting different combination of the above parameters, the peak power of laser can be well maintained. And enable JPT laser suitable for more material processing which Q-switch limited. The higher output power makes its advantages especially in high speed marking applications.



### 应用优势/ Application Advantages

- 雕刻、钻孔  
Scribing, Drilling
- 薄板切割、焊接  
Sheet metal cutting, Welding
- 剥阳极、剥涂层  
Metal surface processing, Peeling coating
- 表面处理  
Surface treatment
- 飞行打标  
Marking on fly



20W/30W M7波形图  
20W/30W M7 Waveform Graph

www.jptoe.com