6 kW or Higher 18×1 or (18+1)×1 Pump Combiner (HPPC Series)

Description
The 6 kW or Higher 18×1 or (18+1)×1 Pump Combiner is designed for combining several multimode laser diodes with high efficiency. The device can handle several kilowatt combined power. Available for different fiber types.

Key Features
● High Power Handling
● High Coupling Efficiency
● Proprietary Fiber Tapering Technique

Applications
● High Power Fiber Laser

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Type</td>
<td></td>
<td>N×1</td>
</tr>
<tr>
<td>Max. Number of Pump Ports (N)*</td>
<td></td>
<td>(N+1)×1</td>
</tr>
<tr>
<td>Pump Wavelength Range</td>
<td>nm</td>
<td>800 - 1000</td>
</tr>
<tr>
<td>Fiber Type for Input (Pump Channel)</td>
<td></td>
<td>105/125 or 135/155 or 220/242 Multimode Fiber</td>
</tr>
<tr>
<td>Fiber Type for Output</td>
<td></td>
<td>30/250DC or 20/400DC or 400/480</td>
</tr>
<tr>
<td>Max. Pump Power per Port</td>
<td>W</td>
<td>300</td>
</tr>
<tr>
<td>Max. Combined Pump Power</td>
<td>W</td>
<td>6000</td>
</tr>
<tr>
<td>Max. Signal Channel Insertion Loss</td>
<td>dB</td>
<td>1.0</td>
</tr>
<tr>
<td>Typ. Pump Efficiency</td>
<td>%</td>
<td>98</td>
</tr>
<tr>
<td>Min. Pump Efficiency</td>
<td>%</td>
<td>96</td>
</tr>
<tr>
<td>Package Dimensions**</td>
<td>mm</td>
<td>100 (L) × 15 (W) × 10 (H)</td>
</tr>
<tr>
<td>Cooling Bottom Plate Temperature</td>
<td>℃</td>
<td>≤25</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>℃</td>
<td>-20 to +70</td>
</tr>
</tbody>
</table>

* The number of pump ports (N) will be depended on the fiber type of output and input.
** The package must be in good thermal contact with heat sink which have active cooling.

Package Dimensions

Ordering Information
HPPC- N×1or(N+1)×1 -①-②②-③-④④-⑤⑤-⑥
①: Signal Wavelength
1 - 1064 nm
2 - 650 nm
S - Specify
②②: Pump Wavelength
915 - 915 nm
976 - 976 nm
SS - Specify
③: Fiber Type for Pump Input
1 - 105/125 (0.22 NA)
2 - 135/155 (0.22 NA)
S - Specify
④④: Fiber Type for Signal Input
S - Specify
⑤⑤: Fiber Type for Output
SS - Specify
⑥: Fiber Length
Q - 0.75 m
S - Specify
00 - For N×1 Combiner
30 - 30/250 DC, NA=0.08/0.46
20 - 20/400 DC, NA=0.06/0.46
10 - FUD-3583, SM-GDF, 10/125, 0.075
SS - Specify

Tel: +86 756 389 8035  Website: www.fiber-resources.com  Email: sales@fiber-resources.com