DY series consists of isolated and constant-voltage products. They are characterized by small size, high efficiency, high isolated voltage, high reliability and low price. This series of products are applicable to the digital signal processing circuit as well as the analog circuit with low requirement over voltage stability, particularly suitable to the distributed power generating system and the circuit with lower power supply. Those circuits with high demand in respects of voltage stability and ripple noise should employ WDY series of products.

### Product selection table

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>input voltage</th>
<th>output voltage</th>
<th>output power</th>
<th>package</th>
</tr>
</thead>
<tbody>
<tr>
<td>DYXXSXX-W1</td>
<td>3.3,5,9,12,15,24</td>
<td>3.3,5,9,12,15,24</td>
<td>0.1</td>
<td>SIP7</td>
</tr>
<tr>
<td>DYXXSXX-W2</td>
<td>3.3,5,9,12,15,24</td>
<td>3.3,5,9,12,15,24</td>
<td>0.25</td>
<td>SIP7</td>
</tr>
<tr>
<td>DYXXSXX-W5</td>
<td>3.3,5,9,12,15,24</td>
<td>3.3,5,9,12,15,24</td>
<td>0.5</td>
<td>SIP7</td>
</tr>
<tr>
<td>DYXXSXX-W75</td>
<td>3.3,5,9,12,15,24</td>
<td>3.3,5,9,12,15,24</td>
<td>0.75</td>
<td>SIP7</td>
</tr>
<tr>
<td>DYXXSXX-1W</td>
<td>3.3,5,9,12,15,24</td>
<td>3.3,5,9,12,15,24</td>
<td>1</td>
<td>SIP7</td>
</tr>
<tr>
<td>DYXXSXXD-1W</td>
<td>3.3,5,9,12,15,24</td>
<td>3.3,5,9,12,15,24</td>
<td>1</td>
<td>DIP14</td>
</tr>
</tbody>
</table>

### Common traits

- **Dielectric strength**: 1000VDC
- **Dielectric resistance**: 1000MΩ minimum
- **Operation temperature**: -20℃ to +65℃
- **Storage temperature**: -40℃ to +95℃
- **Operation humidity**: ≤95%
- **Unloaded power consumption**: 20mW~80mW
- **Cooling method**: naturally air-cooled
- **Mean Time Between Failures (MTBF)**: >1 million hours
- **Shell material**: Heat and flame resistant plastic
- **Operating frequency**: 130KHz ± 20%
- **Temperature rise during working hours**: 20℃ Max, typically 10℃

### Input traits

- **Type of input voltage**: 3.3V, 5V, 12V, 15V, 24VDC
- **Acceptable range of input voltage**: Vin±10%
- **The largest input voltage**: Vin+25%

### Output traits

- **Full-load output power**: 0.1W, 0.25W, 0.5W, 0.75W, 1W
- **Type of output voltage**: 3.3V, 5V, 9V, 12V, 15V, (24V, 30VDC, SIP7)
- **Linear voltage regulation**: 1.2
- **Load regulation**: 12% max
- **Temperature drift coefficient**: typically 0.02%/℃
- **Ripple and noise (20MHz bandwidth)**: 20mV~80mVp-peak
- **Full-load efficiency, 3.3V, 5V Output**: typically 75%, 70% minimum
- **Full-load efficiency, 9V, 12V, 15V Output**: 80% typically, 75% minimum

### Outline dimension and pin-out diagram (Dimension unit: mm, inch)

Note: The products are measured by the mm; the distance between any two pin-out is 2.54 mm; the width of a pin-out is 0.50 mm.

SHENZHEN YAOHUA POWER TECHNOLOGY CO., LTD

http://www.yaohuapower.com