**Input Requirements:** 12-32V un-regulated, min=2A, max=10A (load dependent).

**Max Input Voltage** supported by TVS clamp=34V. NOTE: Above 34V, the TVS protection diode will clamp and burn the input fuse.

**Size:** 44.5mm(L) * 25mm(W) * 30mm (H) (1U compliant)

**Weight:** 70gramms, including cable harness, 35 grams without cable harness.

**DC-Jack:** Female, panel mount, 2.5*5.5*10 mm.

**Connectors**
Molex 39-01-2200, two 3.5" drive power connector, 1 floppy.

**Overload protection**
Over load protection will be effected when either of the loads (+5V & +3.3V) exceeds 140% Max Load.

**Turn-on Delay**
After turning on, at least 10 ms will be needed for the rise of +5VSB output voltage (measured from 10% to 95%) to reach its peak.

**Remote ON/OFF control**
Logic level is LOW - Output voltage is enabled (PS_ON pin)
Logic level is HIGH - Output voltage is disabled (PS_ON pin)

**Operating environment:** Temperature: -40 to 65 degree centigrade.
Relative Humidity: 10 to 90 percent, non-condensing.

**Efficiency, MTBF:** 95%. MTBF=100K hours at 55 Celsius.

**Shipping and storage:** Temperature -40 to +90 degree centigrade.
Relative humidity 5 to 95 percent, non-condensing

**Warranty**
1 Year Limited Warranty statement. Warranty is void if maintenance or calibration is performed by end-user or by use in conjunction with power modules not provided by mini-box.com.

**Support**
Email: support@mini-box.com
Web Site: http://www.mini-box.com
The **picoPSU-80-WI-32** is a small yet powerful and fully compliant ATX power supply designed to power a wide variety of motherboard from a single 12-32V unregulated power source.

The **picoPSU-80-WI-32** is the only "plug-in" wide input range power supply solution for general purpose low power motherboards. **Compatible with most VIA C3/C7 CPUs M/B and with Pentium-M / Core Duo boards**, the **picoPSU-80-WI-32** provides cool, 100% silent power for your system. The **PICOPSU-80-WI-32** has many advantages over a regular power supply:

- Smallest ATX PSU to date
- 100% silent operation
- Low heat dissipation with combined efficiency over 93%
- Plugs directly into the motherboard’s power connector, no cable mess

**Quick installation Instructions**

The **PICOPSU-80-WI-32** has been specifically designed for the Mini-ITX form factor, thus eliminating the need for ATX power cables. It is also 1U compliant — height will not exceed the 1U formfactor.

1. After the picoPSU module was 'snapped in', hook the hard drive power or floppy power to your floppy/hard drives. If more hard drives or floppy connectors are needed, use a HDD/floppy "Y" splitter cable.
2. Connect a 12-32VDC power adapter (peak should not exceed 34V) to the input connector.
3. Turn on the PC using the motherboard ON/OFF switch.

<table>
<thead>
<tr>
<th>Volts (V)</th>
<th>Max Load (A)</th>
<th>Peak Load (A)</th>
<th>Regulation %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5V</td>
<td>6A</td>
<td>8A</td>
<td>+/- 1.5%</td>
</tr>
<tr>
<td>5VSB</td>
<td>1.5A</td>
<td>2A</td>
<td>+/- 1.5%</td>
</tr>
<tr>
<td>3.3V</td>
<td>6A</td>
<td>8A</td>
<td>+/- 1.5%</td>
</tr>
<tr>
<td>-12V</td>
<td>0.1A</td>
<td>0.1A</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>12V</td>
<td>6A</td>
<td>8A</td>
<td>+/- 3%</td>
</tr>
</tbody>
</table>

At max load, forced air ventilation is required. For fanless operation and/or high V(In) de-rate the combined output of the 3.3, 5V and 12V rails by ~20-40%. Peak load should not exceed 60 seconds.

<table>
<thead>
<tr>
<th>CH1=5V</th>
<th>Efficiency (%)</th>
<th>CH2=3.3V</th>
<th>Efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>86%</td>
<td>1A</td>
<td>85%</td>
</tr>
<tr>
<td>3A</td>
<td>94%</td>
<td>3A</td>
<td>93%</td>
</tr>
<tr>
<td>5A</td>
<td>95%</td>
<td>5A</td>
<td>94%</td>
</tr>
<tr>
<td>8A</td>
<td>92%</td>
<td>8A</td>
<td>91%</td>
</tr>
</tbody>
</table>