BT-GP SERIES
General Purpose High Voltage Bench-top Power System

PRELIMINARY DATASHEET

The compact, high-voltage BT-GP Series of general purpose bench-top high voltage power systems offers adjustable output voltage, digital voltage reading, highly stable output, and low ripple. BT-GP Series units are available in AC Input or DC input, positive or negative polarity, and with the option of one or two output connectors.

Applications for BT-GP Series high-voltage power systems include electrostatic, air purification, ATE, test equipment, process fluid cleaning, hi pot testing, and laboratory research.

- Available from 0 to 1kV through 0 to 30kV
- Up to 30W of output power
- 3.5 digit red LED output voltage display
- Bench-top configuration
- Single positive or negative output
- Ruggedized aluminum enclosure
- Enters constant current mode when fault occurs
- Highly portable with built in carrying handle (AC model)
- Protection against overload, short circuit, arc, and reverse polarity

### Inputs
- **AC INPUT**
  - Voltage Range: 90-260 VAC
  - Power: 0 to 30 Watts
- **DC INPUT**
  - Voltage Range: 22-26 VDC
  - Power: 0 to 30 Watts

### Output
- **AC INPUT**
  - Voltage Range: 0 to 1,000 VDC
  - Power: 0 to 30 Watts
- **DC INPUT**
  - Voltage Range: 0 to 2,000 VDC
  - Power: 0 to 30 Watts

### Specifications

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>CONDITIONS</th>
<th>MODELS</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Range</td>
<td>Full Power</td>
<td>90-260 VAC</td>
<td>-</td>
</tr>
<tr>
<td>Power</td>
<td>Nominal Input, Max Eout</td>
<td>0 to 30</td>
<td>Watts</td>
</tr>
<tr>
<td>Current</td>
<td>from Entire Output Voltage Range</td>
<td>30</td>
<td>mA</td>
</tr>
<tr>
<td>Voltage Range</td>
<td>Nominal Input</td>
<td>0 to 10,000</td>
<td>-</td>
</tr>
<tr>
<td>Power</td>
<td>Nominal Input, Max Eout</td>
<td>0 to 30</td>
<td>Watts</td>
</tr>
<tr>
<td>Current</td>
<td>from Entire Output Voltage Range</td>
<td>3.0</td>
<td>mA</td>
</tr>
<tr>
<td>Line Regulation</td>
<td>Max-Min Input, Max Eout, Full Load</td>
<td>NA</td>
<td>%V p-p</td>
</tr>
<tr>
<td>Load Regulation</td>
<td>No Load to Full Load, Max Eout</td>
<td>&lt;0.5%</td>
<td>VDC</td>
</tr>
<tr>
<td>Stability</td>
<td>30 Min. warmup, per 8 hr/ day</td>
<td>&lt;0.05%</td>
<td>VDC</td>
</tr>
<tr>
<td>Ripple</td>
<td>Full Load, Max Eout</td>
<td>&lt;0.01</td>
<td>%V p-p</td>
</tr>
<tr>
<td>Stability</td>
<td>Non-Operating, Case Temp.</td>
<td>-20 to +60</td>
<td>°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Full Load, Max Eout, Case Temp.</td>
<td>0 to +40</td>
<td>°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>All Conditions, Standard Package</td>
<td>0 to 90% non-condensing</td>
<td>-</td>
</tr>
</tbody>
</table>

Specifications subject to change without notice.
BT-GP SERIES
General Purpose High Voltage Bench-top Power System

CONSTRUCTION
Folded aluminum enclosure with blue paint finish

SIZE
Dimensions:
AC Input: 12.01 L x 7.99 W x 4.33 H in (305.0 L x 203.0 W x 110.0 H mm)
DC Input: 11.81 L x 6.30 W x 3.94 H in (300.0 L x 160.0 W x 100.0 H mm)
Weight:
AC Input: 6.17lbs (2.8kg)
DC Input: 7.94lbs (3.6kg)

NOTES
For the outline drawing on the DC Input model, or for additional outputs or power levels, please contact the factory.

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Series name</th>
<th>BT-GP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>90-264VAC input</td>
<td>-AC</td>
</tr>
<tr>
<td></td>
<td>24VDC input</td>
<td>-24</td>
</tr>
<tr>
<td>Voltage</td>
<td>0 to 1kVDC output</td>
<td>-1</td>
</tr>
<tr>
<td></td>
<td>0 to 2kVDC output</td>
<td>-2</td>
</tr>
<tr>
<td></td>
<td>0 to 4kVDC output</td>
<td>-4</td>
</tr>
<tr>
<td></td>
<td>0 to 6kVDC output</td>
<td>-6</td>
</tr>
<tr>
<td></td>
<td>0 to 10kVDC output</td>
<td>-10</td>
</tr>
<tr>
<td></td>
<td>0 to 20kVDC output</td>
<td>-20</td>
</tr>
<tr>
<td></td>
<td>0 to 30kVDC output</td>
<td>-30</td>
</tr>
<tr>
<td>Polarity</td>
<td>Positive Output</td>
<td>P</td>
</tr>
<tr>
<td></td>
<td>Negative Output</td>
<td>N</td>
</tr>
<tr>
<td>Power</td>
<td>Watts Output</td>
<td>30</td>
</tr>
<tr>
<td>Option</td>
<td>Mounting bars (AC model)</td>
<td>-MB</td>
</tr>
<tr>
<td></td>
<td>(Standard) Mounting bars (DC model)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remote HV ON/OFF (DC model)</td>
<td>-REM</td>
</tr>
</tbody>
</table>

Example: BT-GP-24-10P30-MB

*The BT-GP Series is not available in all territories. Please contact the factory for details concerning sales in your area.