

# GP Batteries

## PRODUCT SPECIFICATION

**GP PowerBank Universal  
Model: GPPB19**

### Revision History

| Revision | Date        | Initiator | Reason for Change                                     |
|----------|-------------|-----------|---|
| 01       | 14 Nov 2008 | Con Chan  | Rev. on input voltage, charging time table & approval |
|          |             |           |   |
|          |             |           |   |
|          |             |           |   |
|          |             |           |   |

| Prepared By     | Approved By     |
|-----------------|-----------------|
| Con Chan        | Emily Ho        |
| Date: 14 Nov 08 | Date: 14 Nov 08 |

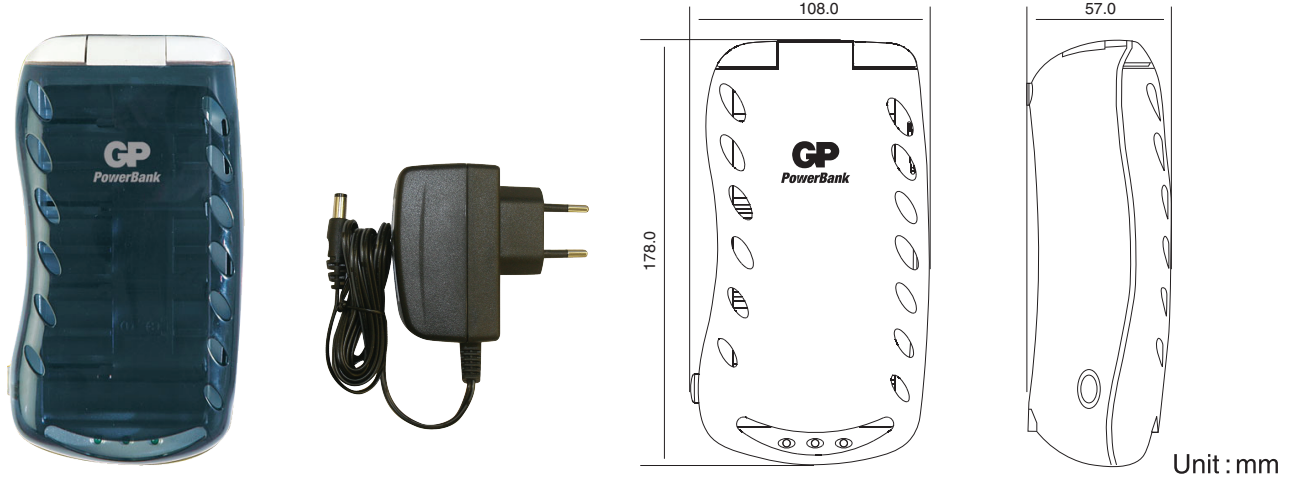
### **GPI International Limited**

Gold Peak Building, 8/F, 30 Kwai Wing Road,  
Kwai Chung, New Territories, Hong Kong.  
Tel: (852) 2484 3333 Fax: (852) 24805912  
Email: [gpii@goldpeak.com](mailto:gpii@goldpeak.com)  
Website: <http://www.gpbatteries.com>

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## Product Specification

Model No.: GPPB19



Unit : mm

| Product Name          | :                | GP PowerBank Universal   |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|-----------------------|------------------|--|-------|------------------|----------------------|------|------------------|----------------------|-------|----------|-------|------|----------|-----|----------|-----|----------|------|----------|-----|------|-------------|------|-------------|------|-----|---------|-----|---|----------|------|---------|-----|----------|-----|---------|-------|----------|------|---------|-------|---------|-----|----------|--------|----|---------|------|
| Description           | :                | Universal battery charger with external adaptor  |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Input Voltage         | :                | 100-240V AC 50/60Hz  |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Output Voltage        | :                | D/C/AA/AAA 2 x 2.8V DC<br>9V 2 x 9V DC   |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Application           | :                | For charging 2 or 4 pcs AA, AAA, C or D size battery (2 batteries per one channel), and 1 to 2 pcs 9V size   |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Charging Current      | :                | <table border="1"> <thead> <tr> <th>D</th> <th>C</th> <th>AA</th> <th>AAA</th> <th>9V</th> </tr> </thead> <tbody> <tr> <td>560mA</td> <td>440mA</td> <td>260mA</td> <td>120mA</td> <td>14mA</td> </tr> </tbody> </table>   | D     | C                | AA                   | AAA  | 9V               | 560mA                | 440mA | 260mA    | 120mA | 14mA |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| D                     | C                | AA   | AAA   | 9V               |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| 560mA                 | 440mA            | 260mA  | 120mA | 14mA             |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Charging Time         | :                | <table border="1"> <thead> <tr> <th>Size</th> <th>Battery Capacity</th> <th>Charging Time(hours)</th> <th>Size</th> <th>Battery Capacity</th> <th>Charging Time(hours)</th> </tr> </thead> <tbody> <tr> <td rowspan="5">AA</td> <td>1300 mAh</td> <td>~ 5</td> <td rowspan="5">D</td> <td>2200 mAh</td> <td>~ 5</td> </tr> <tr> <td>1600 mAh</td> <td>~ 8</td> <td rowspan="4">7000 mAh</td> <td>~ 10</td> </tr> <tr> <td>1800 mAh</td> <td>~ 9</td> <td rowspan="3">~ 16</td> </tr> <tr> <td>2100 series</td> <td>~ 10</td> </tr> <tr> <td>2300 series</td> <td>~ 11</td> </tr> <tr> <td rowspan="6">AAA</td> <td>600 mAh</td> <td>~ 5</td> <td rowspan="6">C</td> <td>9000 mAh</td> <td>~ 21</td> </tr> <tr> <td>650 mAh</td> <td>~ 7</td> <td rowspan="5">2200 mAh</td> <td>~ 5</td> </tr> <tr> <td>700 mAh</td> <td>~ 7.5</td> <td rowspan="4">3500 mAh</td> <td>~ 10</td> </tr> <tr> <td>800 mAh</td> <td>~ 8.5</td> </tr> <tr> <td>850 mAh</td> <td>~ 9</td> </tr> <tr> <td>1000 mAh</td> <td>~ 10.5</td> <td>9V</td> <td>170 mAh</td> <td>~ 16</td> </tr> </tbody> </table> | Size  | Battery Capacity | Charging Time(hours) | Size | Battery Capacity | Charging Time(hours) | AA    | 1300 mAh | ~ 5   | D    | 2200 mAh | ~ 5 | 1600 mAh | ~ 8 | 7000 mAh | ~ 10 | 1800 mAh | ~ 9 | ~ 16 | 2100 series | ~ 10 | 2300 series | ~ 11 | AAA | 600 mAh | ~ 5 | C | 9000 mAh | ~ 21 | 650 mAh | ~ 7 | 2200 mAh | ~ 5 | 700 mAh | ~ 7.5 | 3500 mAh | ~ 10 | 800 mAh | ~ 8.5 | 850 mAh | ~ 9 | 1000 mAh | ~ 10.5 | 9V | 170 mAh | ~ 16 |
| Size                  | Battery Capacity | Charging Time(hours)   | Size  | Battery Capacity | Charging Time(hours) |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| AA                    | 1300 mAh         | ~ 5  | D     | 2200 mAh         | ~ 5                  |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|                       | 1600 mAh         | ~ 8  |       | 7000 mAh         | ~ 10                 |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|                       | 1800 mAh         | ~ 9  |       |                  | ~ 16                 |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|                       | 2100 series      | ~ 10   |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|                       | 2300 series      | ~ 11   |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| AAA                   | 600 mAh          | ~ 5  | C     | 9000 mAh         | ~ 21                 |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|                       | 650 mAh          | ~ 7  |       | 2200 mAh         | ~ 5                  |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|                       | 700 mAh          | ~ 7.5  |       |                  | 3500 mAh             | ~ 10 |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|                       | 800 mAh          | ~ 8.5  |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|                       | 850 mAh          | ~ 9  |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
|                       | 1000 mAh         | ~ 10.5   |       |                  |                      | 9V   | 170 mAh          | ~ 16                 |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| MTBF                  | :                | 30000 hours  |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Operating Temperature | :                | 0°C to 45°C  |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Storage Temperature   | :                | -20°C to 60°C  |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Charge Indicator      | :                | 2 Green LED for 2 channels; 1 Green LED for 9V   |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Dimensions            | :                | 178 (L) X 108 (W) X 57 (T)mm   |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Approval              | :                | Charger - CE, FCC<br>Adaptor - CE, GS, c-UL  |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |
| Warranty Period       | :                | 12 months from ex-factory date.  |       |                  |                      |      |                  |                      |       |          |       |      |          |     |          |     |          |      |          |     |      |             |      |             |      |     |         |     |   |          |      |         |     |          |     |         |       |          |      |         |       |         |     |          |        |    |         |      |