



# SMF UPS Batteries

**HBL Power Systems Ltd.**, is a listed Indian company, in business since 1977, with a focus on Engineered Products and Services.

Today's global businesses demand a 24x7 uptime environment making Uninterruptible Power Supplies (UPS) an integral part of the infrastructure. Batteries are the single most critical element of UPS system. HBL POWER SYSTEMS takes pride in positioning itself as the industry leader in manufacturing reliable, safe, high-quality customized Sealed Maintenance Free battery for UPS.

### Upgrade in Technology

Triumph UPS batteries use state of the art heavy duty grids with high purity specialized alloy along with Valve Regulated Lead Acid (VRLA) technology. These batteries are designed to suit long and frequent power failures.

### Superior Features & Benefits Include

- Low resistance / self discharge
- High energy density
- Long shelf life
- High purity specialized alloy
- Deep discharge capability

**Applications :** UPS, Solar Power Equipment, Medical Instruments, Fire & Security Alarm Systems.

### Range of 12V Monoblocks

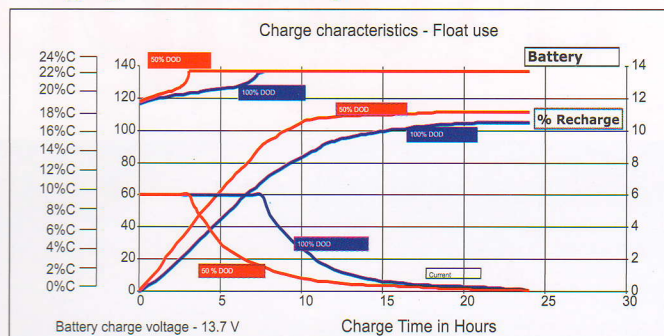
| Model  | Capacity (Ah) | Dimensions (mm) |     |     | Weight App (Kg) |
|--------|---------------|-----------------|-----|-----|-----------------|
|        |               | L               | W   | H   |                 |
| TP 7   | 7             | 151             | 65  | 100 | 2.45            |
| TP 12  | 12            | 151             | 98  | 100 | 3.75            |
| TP 17  | 17            | 181             | 76  | 171 | 6.00            |
| TP 26  | 26            | 166             | 125 | 175 | 9.00            |
| TP 42  | 42            | 197             | 165 | 170 | 13.50           |
| TP 65  | 65            | 330             | 168 | 176 | 21.00           |
| TP 75  | 75            | 350             | 168 | 176 | 24.00           |
| TP 100 | 100           | 410             | 175 | 225 | 32.00           |
| TP 120 | 120           | 410             | 175 | 225 | 36.00           |
| TP 150 | 150           | 525             | 220 | 225 | 48.00           |
| TP 160 | 160           | 525             | 220 | 225 | 51.00           |
| TP 180 | 180           | 525             | 220 | 225 | 57.00           |
| TP 200 | 200           | 525             | 220 | 225 | 61.00           |

### Discharge currents at 25°C

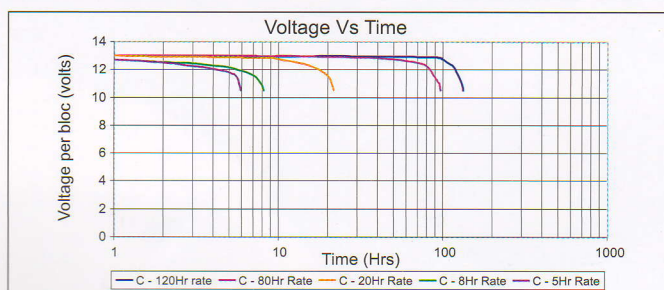
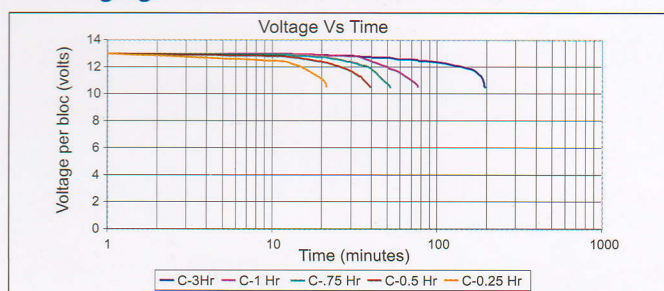
The batteries conforms to JIS 8702 standard.

| Model  | Capacity | Discharge current in amps |                  |                  |                  |                  |                   |                   |  |
|--------|----------|---------------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|--|
|        |          | 15 min/<br>1.60V          | 30 min/<br>1.60V | 1 hour/<br>1.60V | 3 hour/<br>1.70V | 5 hour/<br>1.75V | 10 hour/<br>1.75V | 20 hour/<br>1.75V |  |
| TP 7   | 7        | -                         | -                | 4.40             | 1.75             | 1.14             | 0.65              | 0.35              |  |
| TP 12  | 12       | -                         | -                | 7.50             | 3.00             | 1.95             | 1.11              | 0.60              |  |
| TP 17  | 17       | -                         | -                | 10.70            | 4.25             | 2.77             | 1.58              | 0.85              |  |
| TP 26  | 26       | -                         | -                | 16.50            | 6.50             | 4.23             | 2.41              | 1.30              |  |
| TP 42  | 42       | 70                        | 44               | 26.00            | 10.50            | 6.84             | 3.90              | 2.10              |  |
| TP 65  | 65       | 102                       | 63               | 40.00            | 15.50            | 10.59            | 6.04              | 3.25              |  |
| TP 75  | 75       | 130                       | 76               | 45.00            | 18.75            | 12.21            | 6.96              | 3.75              |  |
| TP 100 | 100      | 172                       | 105              | 62.00            | 25.00            | 16.29            | 9.29              | 5.00              |  |
| TP 120 | 120      | 205                       | 122              | 73.00            | 30.00            | 19.50            | 11.10             | 6.00              |  |
| TP 150 | 150      | 251                       | 156              | 93.00            | 37.05            | 24.40            | 13.90             | 7.50              |  |
| TP 160 | 160      | 286                       | 168              | 100.00           | 40.00            | 26.06            | 14.86             | 8.00              |  |
| TP 180 | 180      | 308                       | 180              | 110.00           | 45.00            | 29.30            | 16.70             | 9.00              |  |
| TP 200 | 200      | 328                       | 203              | 124.00           | 50.00            | 32.00            | 18.60             | 10.00             |  |

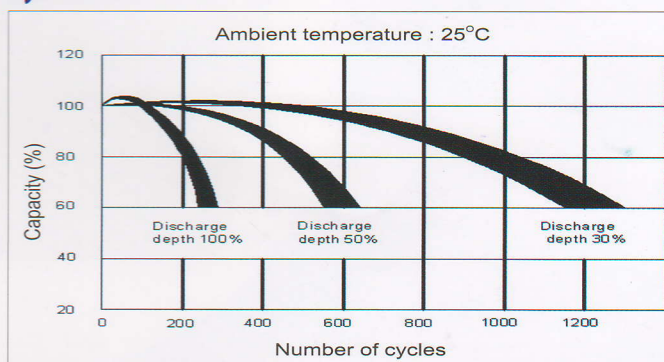
### Charging characteristic diagram



### Discharging characteristics in different rate



### Cycle Life



All the batteries are as per JIS 8702 International specification and tested as per ERTL and E TDC

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"All parameters are subject to change by manufacturer without prior notice"