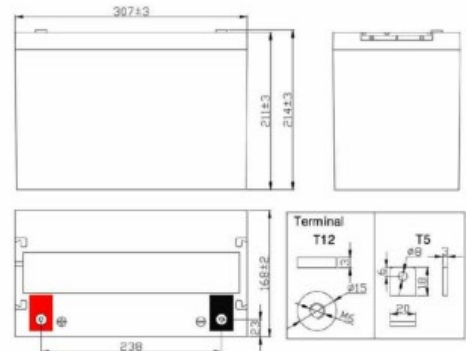


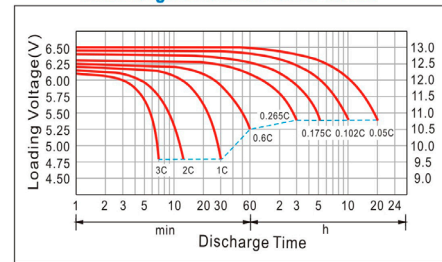
# PQ1290T12 (12V 90Ah)



Unit: mm

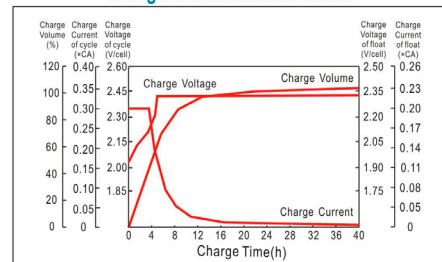
| Specifications      |              | PQ1290T12 |
|---------------------|--------------|-----------|
| Nominal Voltage     |              | 12V       |
| Rated Capacity      |              | 90Ah      |
| Dimensions (mm)     | Length       | 307       |
|                     | Width        | 168       |
|                     | Height       | 211       |
|                     | Total Height | 214       |
| Approx. Weight (kg) |              | 26        |
| Terminal            |              | T12       |

Discharge Characteristics Curve

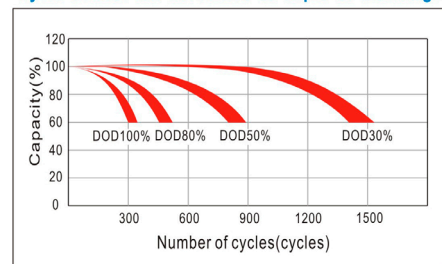


| Characteristics                            |                       |   |
|--|-----------------------|---|
| Capacity 25°C                              | 20HR (4.905A)         | 98.1Ah                                      |
|  | 10HR (9.180A)         | 91.8Ah                                      |
|  | 5HR (15.75A)          | 78.7Ah                                      |
|  | 1HR (56.97A)          | 56.9Ah                                      |
| Impedance                                  | Fully charged battery | Approx.                                     |
|  | 25°C                  | 120 mΩ                                      |
| Temperature dependence of capacity (20HR)  | 40°C                  | 102%  |
|  | 25°C                  | 100%  |
|  | 0°C                   | 85%   |
|  | -15°C                 | 65%   |
| Self-discharge (20°C) (remaining capacity) | 3 months              | 90%   |
|  | 6 months              | 80%   |
|  | 12 months             | 60%   |
| Max. discharge current (25°C)              |                       | 720A (5s)                                   |
| Service life acc. to EUROBAT (25°C)        |                       | 6-9 years                                   |
| Constant voltage charge (25°C)             | Cycle                 | 14.4~14.7V(-24mV/°C)<br>max. current: 0.3CA |
|  | Float                 | 13.5~13.8V(-18mV/°C)<br>max. current: 0.2CA |

Charge Characteristics Curve



Cycle service life in relation to depth of discharge



| Constant Current Discharge Characteristics (A), (25°C) |       |       |       |       |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FV/TIME  | 5min  | 10min | 15min | 30min | 60min | 2H    | 3H    | 5H    | 8H    | 10H   | 20H   |
| 1.60V/cell   | 306.0 | 203.9 | 163.3 | 101.3 | 58.50 | 34.97 | 24.84 | 16.63 | 11.18 | 9.540 | 5.220 |
| 1.70V/cell   | 274.5 | 187.7 | 155.3 | 98.55 | 57.69 | 34.52 | 24.39 | 16.24 | 11.00 | 9.405 | 5.085 |
| 1.75V/cell   | 247.5 | 173.3 | 148.1 | 95.85 | 56.97 | 34.07 | 24.12 | 15.99 | 10.89 | 9.315 | 4.995 |
| 1.80V/cell   | 220.5 | 158.0 | 139.1 | 92.16 | 55.80 | 33.60 | 23.85 | 15.75 | 10.73 | 9.180 | 4.905 |

| Constant Wattage Discharge Characteristics (W), (25°C) |       |       |       |       |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FV/TIME  | 5min  | 10min | 15min | 30min | 60min | 2H    | 3H    | 5H    | 8H    | 10H   | 20H   |
| 1.60V/cell   | 527.9 | 363.5 | 296.6 | 189.0 | 112.1 | 68.18 | 49.27 | 33.07 | 22.24 | 19.00 | 10.43 |
| 1.70V/cell   | 485.0 | 340.9 | 285.9 | 185.6 | 111.1 | 67.59 | 48.50 | 32.36 | 21.94 | 18.78 | 10.17 |
| 1.75V/cell   | 443.4 | 319.1 | 275.1 | 182.1 | 110.1 | 66.99 | 48.08 | 31.96 | 21.78 | 18.63 | 9.990 |
| 1.80V/cell   | 400.6 | 294.8 | 260.7 | 176.6 | 108.3 | 66.63 | 47.66 | 31.50 | 21.46 | 18.36 | 9.810 |