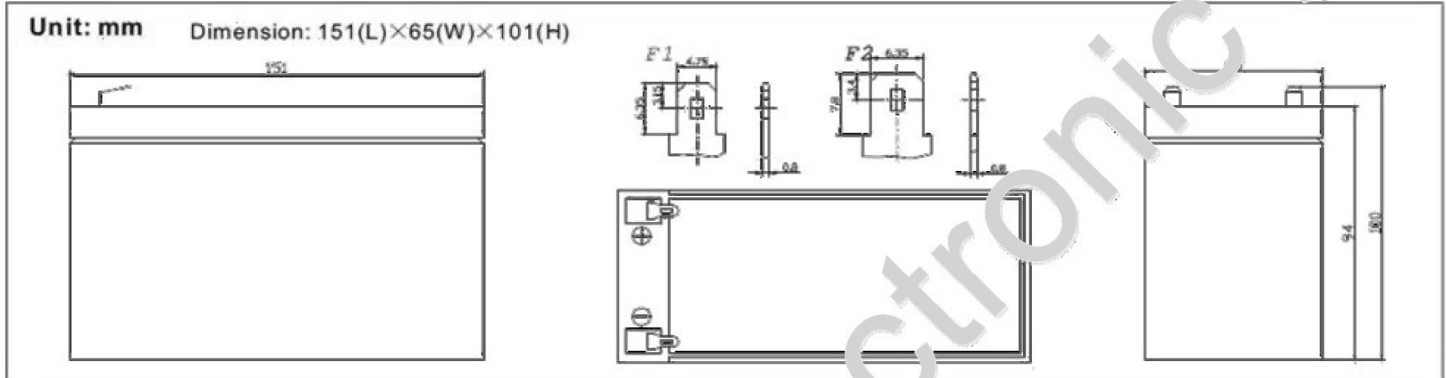


MODEL :PEC 12-9

PE12-9 is a general purpose battery with 5 years floating design life , meet with IEC, JIS standard .With heavy duty grid, thickness plates, special additives, RT series battery have long and reliable standby service life



Dimensions



Specification

| | | | |
|-----------------------------|---------------------------------------|---|---------------------|
| Capacity: | 9Ah@20hr-rate to 1.75V per cell @25°C | Float Charging Voltage: | 13.6 to 13.8 V@25°C |
| Voltage | 12V | Equalization and Cycle service voltage | 14.6 to 14.8 V@25°C |
| Weight | Approx. 2.6 Kg | Temp.compensate coefficient: | -3mV/°C/cell |
| Max. Discharge Current | 90A (5 sec) | Maximum charge current: | 2.7A |
| Internal Resistance | Approx. 18mΩ | Every three months, recommend equalization charge | |
| Operating Temperature Range | Operation(max.) | -20 to 55°C | |
| | Operation(recommended) | 20 to 30°C | |
| | Storage | -20 to 40°C | |
| Self Discharge | less than 3%per month@25° C | | |

A.B.S (UL94-HB), Flame stability resistance of UL94-V1 can be available upon request.

Constant Current Discharge Characteristics: A (25°C)

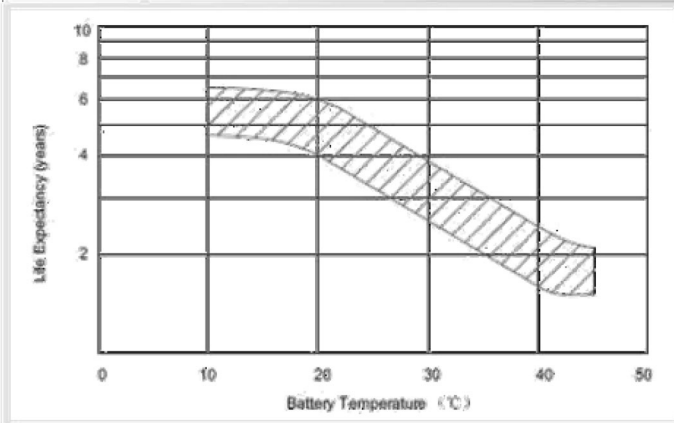
| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9.60V | 35.550 | 27.00 | 18.270 | 10.557 | 6.2460 | 3.2557 | 2.3040 | 1.8900 | 1.5666 | 1.0391 | 0.8996 | 0.5049 |
| 10.0V | 34.766 | 27.835 | 17.684 | 10.395 | 6.2100 | 3.2322 | 2.2950 | 1.8810 | 1.5574 | 1.0350 | 0.8905 | 0.4865 |
| 10.2V | 34.414 | 22.129 | 17.278 | 10.314 | 6.1650 | 3.2243 | 2.2860 | 1.8720 | 1.5481 | 1.0309 | 0.8813 | 0.4774 |
| 10.5V | 29.282 | 20.709 | 16.379 | 10.080 | 6.0750 | 3.1852 | 2.2770 | 1.8630 | 1.5388 | 1.0267 | 0.8721 | 0.4590 |
| 10.8V | 23.151 | 19.298 | 15.470 | 9.8370 | 5.9850 | 3.1304 | 2.2590 | 1.8540 | 1.5296 | 1.0226 | 0.8537 | 0.4406 |
| 11.1V | 23.047 | 17.878 | 14.571 | 9.5940 | 5.9040 | 3.0835 | 2.2410 | 1.8450 | 1.5203 | 1.0184 | 0.8446 | 0.4315 |

Constant Power Discharge Characteristics: W(25°C)

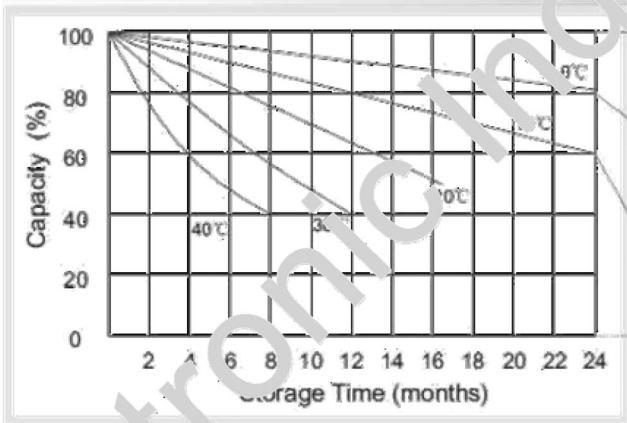
| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9.60V | 388.80 | 252.72 | 205.36 | 126.68 | 74.898 | 39.021 | 27.594 | 22.572 | 22.081 | 12.494 | 10.635 | 5.9449 |
| 10.0V | 378.68 | 252.45 | 202.41 | 124.63 | 74.682 | 38.786 | 27.540 | 22.518 | 21.914 | 12.394 | 10.526 | 5.7267 |
| 10.2V | 371.10 | 244.88 | 197.77 | 123.82 | 74.520 | 38.692 | 27.486 | 22.518 | 21.859 | 12.377 | 10.417 | 5.6176 |
| 10.5V | 335.35 | 234.78 | 187.47 | 120.85 | 73.278 | 38.082 | 27.324 | 22.356 | 21.803 | 12.343 | 10.308 | 5.3995 |
| 10.8V | 299.56 | 219.63 | 177.12 | 117.99 | 72.036 | 37.565 | 27.108 | 22.194 | 21.747 | 12.293 | 10.144 | 5.2358 |
| 11.1V | 263.81 | 204.48 | 166.82 | 115.13 | 70.794 | 37.002 | 26.892 | 22.032 | 21.692 | 12.293 | 9.9808 | 5.0722 |

MODEL :PEC 12-9

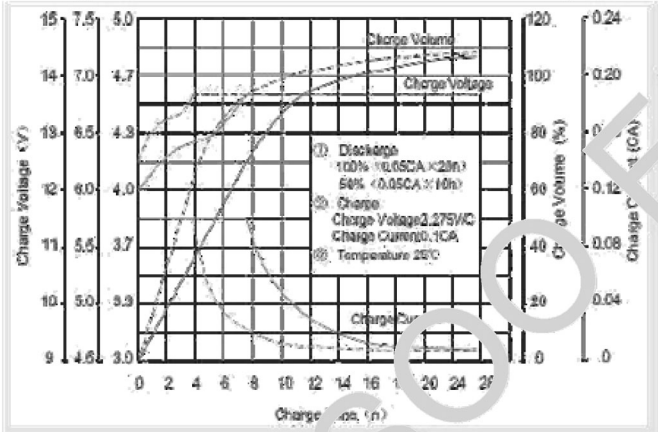
Effect of temperature on float life time



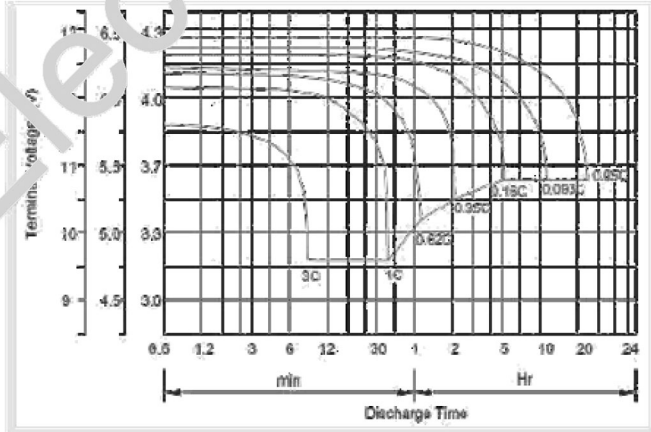
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors at Different Temperature

| -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|-------|-------|-----|-----|------|------|------|------|------|------|
| 46% | 66% | 83% | 83% | 90% | 98% | 100% | 103% | 107% | 109% |

Equalization charge method:

First charge the batteries,

then charge the batteries with constant voltage of 2.45V/cell, the time of equalization charge is 24 hours@25°C

Add :No, 2, Azadegan St., Ghaem-Magham-Farahani Ave., 1586736115, Tehran, IRAN

Tel : +98 21 83836 / Fax : +98 21 88102600 / After Sales Services: +98 21 83837000

WebSite : www.porsoo.ir / Email : info@porsoo.ir