



PR670 is a general purpose battery with 5 years life in standby service, or more than 260 cycles at 100% D.O.D by cyclic use. As with all PROSTAR batteries, all PR models are rechargeable, highly efficient, leak proof and maintenance free.

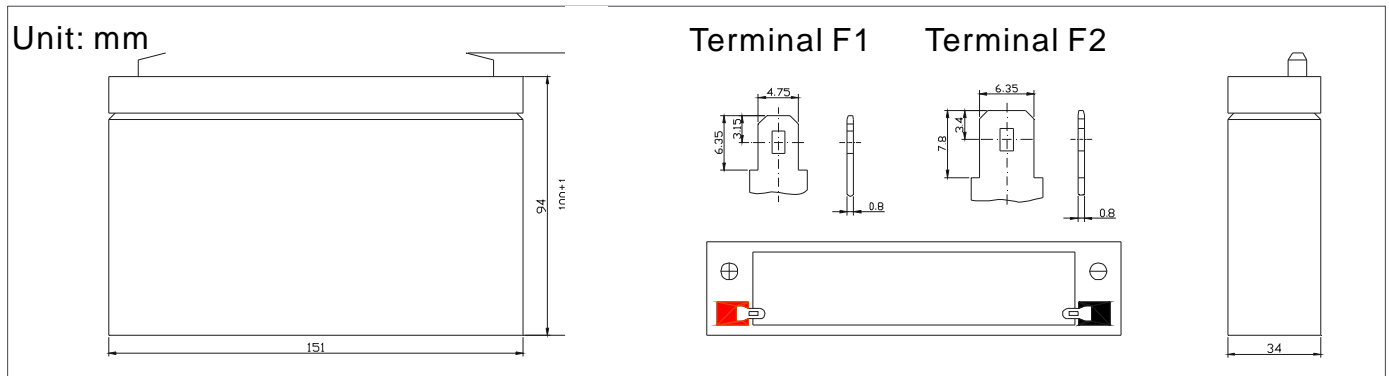


Specification

| | |
|--|--|
| Cells Per Unit | 3 |
| Voltage Per Unit | 6 |
| Capacity | 7.0Ah@20hr-rate to 1.75V per cell @25? |
| Weight | Approx. 1.08Kg |
| Max. Discharge Current | 70A(5 sec) |
| Internal Resistance A | Approx. 12m? |
| Operating Temperature Range | Discharge: -20? ~60? Charge: 0? ~50? Storage: -20? ~60? |
| Normal Operating Temperature Range | 25? ±5? |
| Float charging Voltage | 6.8 to 6.9VDC/unit Average at 25? |
| Recommended Maximum Charging Current Limit | 2.1A |
| Equalization and Cycle Service | 7.25 to 7.45VDC/unit Average at 25? |
| Self Discharge | PROSTAR batteries can be stored for more than 6 months at 25? . Please charge batteries before using. For higher temperature, the time interval will be shorter. |
| Terminal | Faston Tab 187(F1)/Faston Tab 250(F2) |
| Container Material | A.B.S. (UL94-HB) Flammability resistance of UL94-V2 can be available upon request |



Dimensions



Constant Current Discharge Characteristics Unit: A(25?)

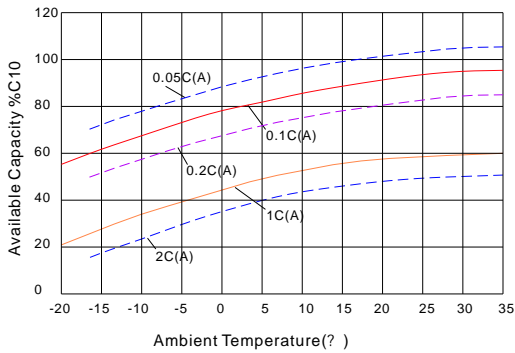
| F.V./Time | 5M N | 10M N | 15M N | 30M N | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|-----------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 4.80V | 29.1 | 19.4 | 14.9 | 8.21 | 4.86 | 2.91 | 1.79 | 1.47 | 1.18 | 0.87 | 0.69 | 0.39 |
| 5.00V | 27.2 | 18.1 | 14.0 | 8.09 | 4.83 | 2.89 | 1.79 | 1.46 | 1.18 | 0.87 | 0.68 | 0.37 |
| 5.10V | 25.7 | 17.6 | 13.7 | 8.02 | 4.80 | 2.88 | 1.78 | 1.46 | 1.17 | 0.87 | 0.67 | 0.36 |
| 5.25V | 23.2 | 16.4 | 13.0 | 7.84 | 4.73 | 2.85 | 1.77 | 1.45 | 1.16 | 0.87 | 0.67 | 0.35 |
| 5.40V | 20.8 | 15.3 | 12.3 | 7.65 | 4.66 | 2.80 | 1.76 | 1.44 | 1.16 | 0.86 | 0.65 | 0.34 |
| 5.50V | 18.3 | 14.2 | 11.6 | 7.46 | 4.59 | 2.76 | 1.74 | 1.44 | 1.15 | 0.86 | 0.64 | 0.33 |

Constant Power Discharge Characteristics Unit: W(25?)

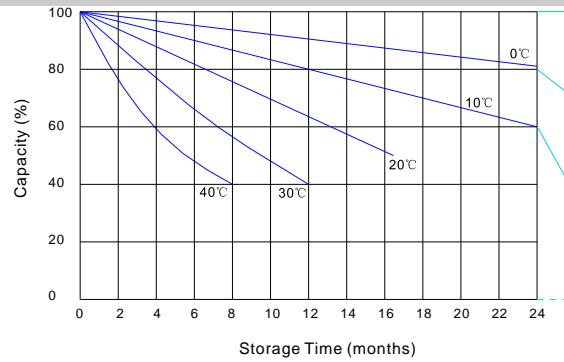
| F.V./Time | 5M N | 10M N | 15M N | 30M N | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|-----------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 4.80V | 56.0 | 36.4 | 29.6 | 16.4 | 9.71 | 5.82 | 3.58 | 2.93 | 2.78 | 1.74 | 1.37 | 0.76 |
| 5.00V | 52.5 | 35.0 | 28.1 | 16.2 | 9.68 | 5.78 | 3.57 | 2.92 | 2.76 | 1.74 | 1.35 | 0.74 |
| 5.10V | 51.5 | 34.0 | 27.4 | 16.1 | 9.66 | 5.77 | 3.56 | 2.92 | 2.75 | 1.73 | 1.34 | 0.72 |
| 5.25V | 46.5 | 32.6 | 26.0 | 15.7 | 9.50 | 5.68 | 3.54 | 2.90 | 2.74 | 1.72 | 1.32 | 0.69 |
| 5.40V | 41.5 | 30.5 | 24.6 | 15.3 | 9.34 | 5.60 | 3.51 | 2.88 | 2.74 | 1.72 | 1.30 | 0.67 |
| 5.50V | 36.6 | 28.4 | 23.1 | 14.9 | 9.18 | 5.52 | 3.49 | 2.86 | 2.73 | 1.72 | 1.28 | 0.65 |

All mentioned values are average values

Temperature effects curve



Storage characteristic



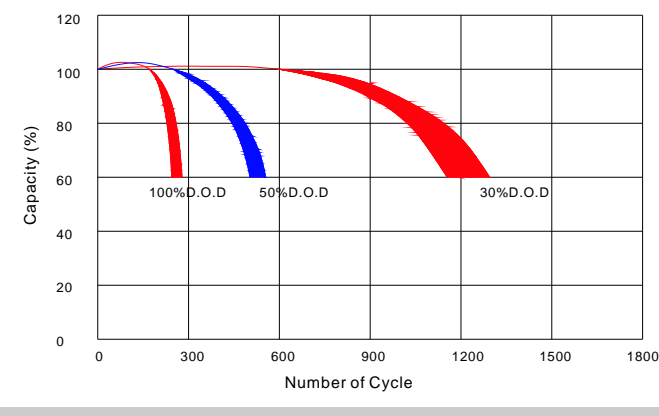
Supplementary charge required (Carry out supplementary y charge before use if 100% capacity is requires)

Supplementary charge required before use. This supplementary y charge will help to recover the capacity and should be made as early as possible.

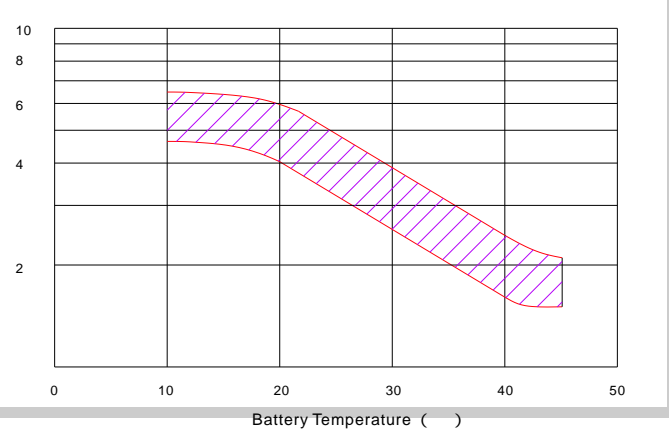
Supplementary charge may often fail to recover the capacity. The batter y should never be left standing till this state is reached

Supplementary y charge and storage guidelines

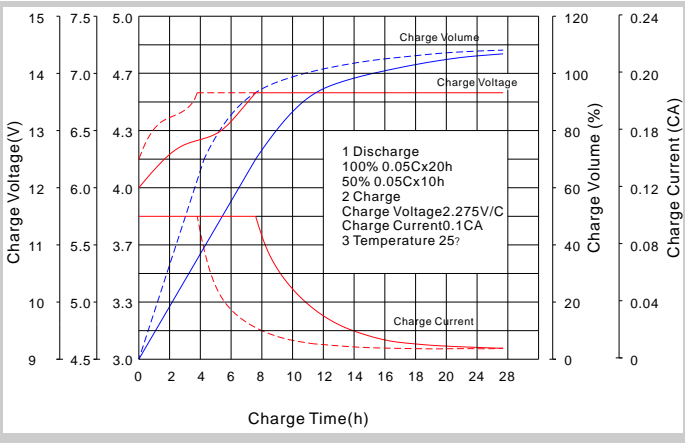
Life characteristics of cyclic use



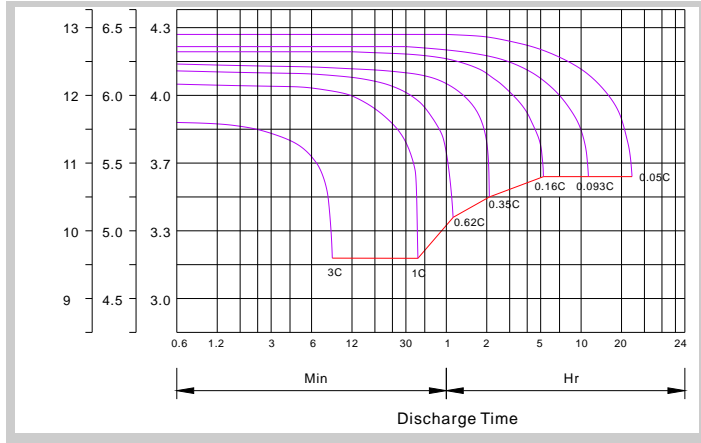
Effect of temperature on long term float life



Charge characteristic Curve for standby use



Discharge characteristic curve



Charging Procedures

| Application | Charge Voltage (V) | | | Max.Charge Current |
|-------------|--------------------|-----------|-----------------|--------------------|
| | Temperature | Set point | Allowable range | |
| Cycle Use | 25° | 14.7 | 14.4~15.0 | 0.3C |
| Standby | 25° | 13.7 | 13.6~13.8 | 0.3C |

Discharge Current VS. Discharge Voltage

| | | | |
|--------------------------------|-----------|----------------|----------|
| Final Discharge Voltage V/cell | 1.75V | 1.70V | 1.60V |
| Discharge Current (A) | (A)<0.20C | 0.20C<(A)<1.0C | (A)>1.0C |

Charge the batteries at least once every six months, if they are stored at 25° .

Charging Method:

| | |
|------------------|-------------------------------------|
| Constant Voltage | 7.25V~7.45V,5~11h.MAX.CURRENT01.1CA |
| Constant Current | 0.1CAx5h |
| Fast | 0.3CAx1.7h |

Charging Procedures(6V series)

| Application | Charge Voltage (V) | | | Max. Charge Current |
|-------------|--------------------|-----------|-----------------|---------------------|
| | Temperature | Set point | Allowable range | |
| Cycle Us | 25° | 7.35 | 7.25~7.45 | 0.3C |
| Standby | 25° | 6.85 | 6.8~6.9 | 0.3C |