



# SOLAR BATTERY

Save the Environment  
Turn to Solar Power

| Model                              | CB-10000        | CB-15000    | CB-20000    | CB-22000    | CB-24000    | CB-27000    | CB-30000    |
|------------------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Parameters                         | 100Ah           | 150Ah       | 200Ah       | 220Ah       | 240Ah       | 270Ah       | 300Ah       |
| Container                          | PPCP            | PPCP        | PPCP        | PPCP        | PPCP        | PPCP        | PPCP        |
| Separator                          | PE Daramic      | PE Daramic  | PE Daramic  | PE Daramic  | PE Daramic  | PE Daramic  | PE Daramic  |
| Nominal Voltage                    | 12V             | 12V         | 12V         | 12V         | 12V         | 12V         | 12V         |
| No. Of Cells                       | 6               | 6           | 6           | 6           | 6           | 6           | 6           |
| Design Life                        | 6 Years         | 6 Years     | 6 Years     | 6 Years     | 6 Years     | 6 Years     | 6 Years     |
| <b>Nominal Capacity(20°C)</b>      |                 |             |             |             |             |             |             |
| 20 Hr Rate (10.5)                  | 100Ah           | 150Ah       | 200Ah       | 220Ah       | 240Ah       | 270Ah       | 300Ah       |
| 10 Hr Rate (10.5V)                 | 88Ah            | 132Ah       | 176Ah       | 193.6Ah     | 211.2Ah     | 237.6Ah     | 264Ah       |
| Self Discharge                     | <3%Pm           | <3%Pm       | <3%Pm       | <3%Pm       | <3%Pm       | <3%Pm       | <3%Pm       |
| <b>Operating Temperature Range</b> |                 |             |             |             |             |             |             |
| Discharge                          | 0~55°C          | 0~55°C      | 0~55°C      | 0~55°C      | 0~55°C      | 0~55°C      | 0~55°C      |
| Charge                             | 0~55°C          | 0~55°C      | 0~55°C      | 0~55°C      | 0~55°C      | 0~55°C      | 0~55°C      |
| Storage                            | 0~55°C          | 0~55°C      | 0~55°C      | 0~55°C      | 0~55°C      | 0~55°C      | 0~55°C      |
| Max. Discharge Current 77°F(25°C)  | 600A(3s)        | 600A(3s)    | 600A(3s)    | 600A(3s)    | 600A(3s)    | 600A(3s)    | 600A(3s)    |
| Short Circuit Current              | 100A            | 150A        | 200A        | 220A        | 240A        | 270A        | 300A        |
| Charge Methods:                    | CCCV 77°F(25°C) |             |             |             |             |             |             |
| Cycle Use                          | 14.4-14.7V      |             |             |             |             |             |             |
| Maximum Charging Current           | 10A             | 15A         | 20A         | 22A         | 24A         | 27A         | 30A         |
| Temperature Compensation           | 75mV/300moh     |             |             |             |             |             |             |
| Standby Use                        | 13.8-14.2V      | 13.8-14.2V  | 13.8-14.2V  | 13.8-14.2V  | 13.8-14.2V  | 13.8-14.2V  | 13.8-14.2V  |
| Dimension                          | 495x190x430     | 495x190x430 | 495x190x430 | 495x190x430 | 495x190x430 | 495x190x430 | 495x190x430 |
| Weight+-3% Kgs                     | 53              | 58          | 64          | 66          | 69          | 72          | 78          |

IS 13369, IEC 60896-11 Stationary Lead Acid Battery, ISO 9001:2015, CE Complied.

## PRODUCT FEATURES :-

**Capacity Rating C20 :-** Specified in Indian standard IS 13369-1992 for UPS and Inverter battery.

**Thick Spine Tubular Grids :-** To cater deep discharge in long and frequent power cut.

**Low Resistance PE Separators :-** Avoids cell short circuit & low water loss features.

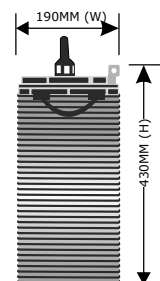
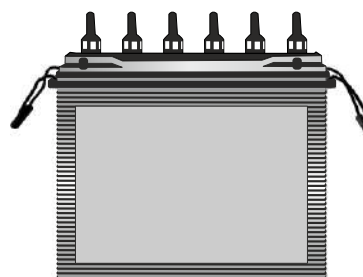
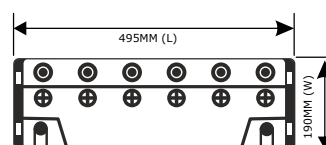
**Tubular Gauntlets :-** Tubular positive plates consisting of selenium alloy grids and properly balanced Active materials enclosed in chlorine free polyester gauntlets of high bursting Strength with high performance (HP)

**High Charge Acceptance :-** Suitable in areas of Frequent power cuts & Quick Charge Acceptance.

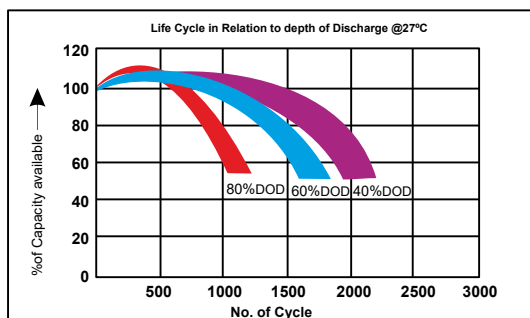
**Well Designed :-** Negative Plates over designed with special additives for long life.

**Double nylon Rope Handle :-** Safety and ease in handling.

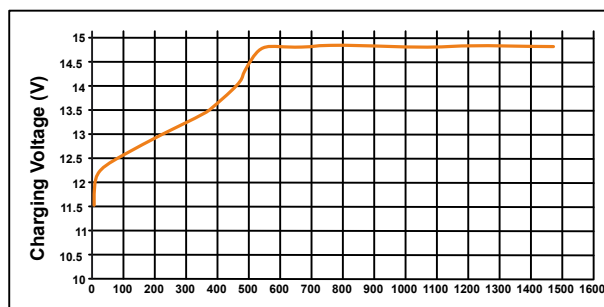
**SS Fastener :-** Goodbye to sulphation/corrosion on terminals and on its joints.



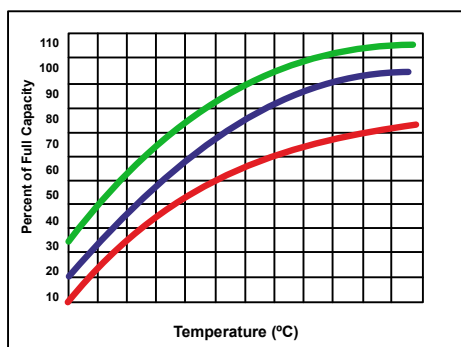
## Expected Life



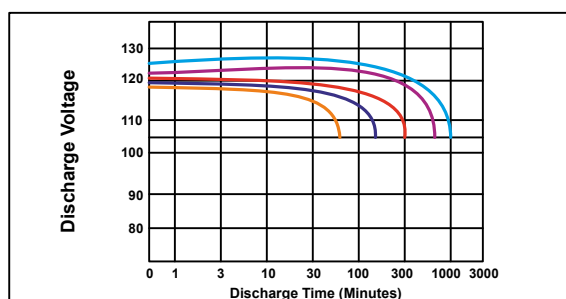
## Charging Profile



## Expected Capacity vs Temperature



## Discharging Characteristics at various rates @27°C



## Technical Specifications of Model CB-20000

|                                                      |                                            |
|------------------------------------------------------|--------------------------------------------|
| Model                                                | CB-20000                                   |
| Specification                                        | IS :13369:1992                             |
| Dimension                                            | L X W X H in mm                            |
|                                                      | 495x190x430 in mm                          |
| Layout                                               | L-Type                                     |
| Container                                            | IT-500                                     |
| Plate Type                                           | Tubular (+VE)                              |
|                                                      | Flat (-VE)                                 |
| Back Up @400 Watt                                    | 4:15 Hours (+/-) 10 Min.                   |
| Performance guarantee in cycles @27 °C at C20 Rating | 80% depth of discharge : 1100 cycles (min) |
| Nominal Energy (Single Battery)                      | 2400 Watt                                  |
| AH Efficiency                                        | In excess 90%                              |
| WH Efficiency                                        | In excess 80%                              |
| Packed Weight                                        | 64.000 Kg (+/-) 0.5 Kg                     |
| Sulphuric Acid (Battery Grade)                       | IS:266:1993                                |
| D M Water as per                                     | IS:1069:1993                               |





# CUBE<sup>®</sup>

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