

## Amara Raja S-XEL Tubular

After pioneering in VRLA technology, Amara Raja, now brought to you ultra low maintenance free tubular batteries with best in class design with advance manufacturing technology. With decades of experience we gain in battery technology, coupled with continuous research has helped us to bring this highest quality product. Uniquely built Amara Raja tubular batteries has covered all aspects in design, required to give high life and extra backup beside it ensure fast charge with high efficiency & makes Amara Raja tubular, a perfect choice for high cyclic back up requirements.

### Major Applications

- UPS
- Telecommunication
- Process Instrumentation & Control
- Internet Housing Sites
- Cable Television Equipment
- Fire alarm
- S & Tin Railways
- Office Automation Equipment's
- Power Plants & Substations
- Inverters / Industrial inverters

### Charging Parameters

Constant Voltage charging at 27°C

#### Dual Mode Charge:

The charging facility should have auto float change over and charge mode facilities with the recommended voltage settings

|                         |                      |
|-------------------------|----------------------|
| ● Float Voltage         | - 13.8± 0.1V/battery |
| ● Boost Voltage         | - 14.8± 0.1V/battery |
| ● Over cut-off voltage  | - 15.0V              |
| ● Under cut-off voltage | - 10.5V              |

## Amara Raja Quanta S-XEL Tubular Batteries Range

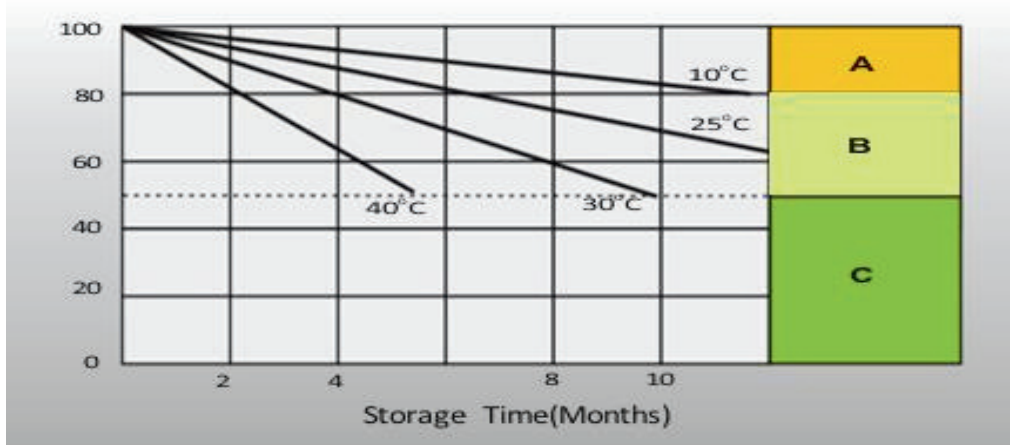
| SPECIFICATION TABLE |                     |   |   |                                    |       |         |               |                        |         |
|---------------------|---------------------|---|---|------------------------------------|-------|---------|---------------|------------------------|---------|
| Model               | Nominal Voltage (V) | Capacity in Ah at C20hr at 27°C at 1.75E CV | Approx. Battery Weight $\pm 5\%$ in kgs with Acid | Overall Dimensions $\pm 3$ (in mm) |       |         | Poly Material | Charging currentin (A) |         |
|                     |                     |   |   | Length                             | Width | Height* |               | Minimum                | Maximum |
| 12ADST 075          | 12V                 | 75  | 28.9  | 408                                | 173   | 305     | PP            | 7.5                    | 15      |
| 12ADST 100          | 12V                 | 100   | 32.5  | 408                                | 173   | 305     | PP            | 10                     | 20      |
| 12ADT T 150         | 12V                 | 150   | 49.5  | 505                                | 189   | 378     | PP            | 15                     | 30      |
| 12ADT T 200         | 12V                 | 200   | 60.5  | 505                                | 189   | 428     | PP            | 20                     | 40      |
| 12ADT T 230         | 12V                 | 230   | 65.5  | 505                                | 189   | 428     | PP            | 23                     | 46      |

H\*-Height up to Floats

## Product Details

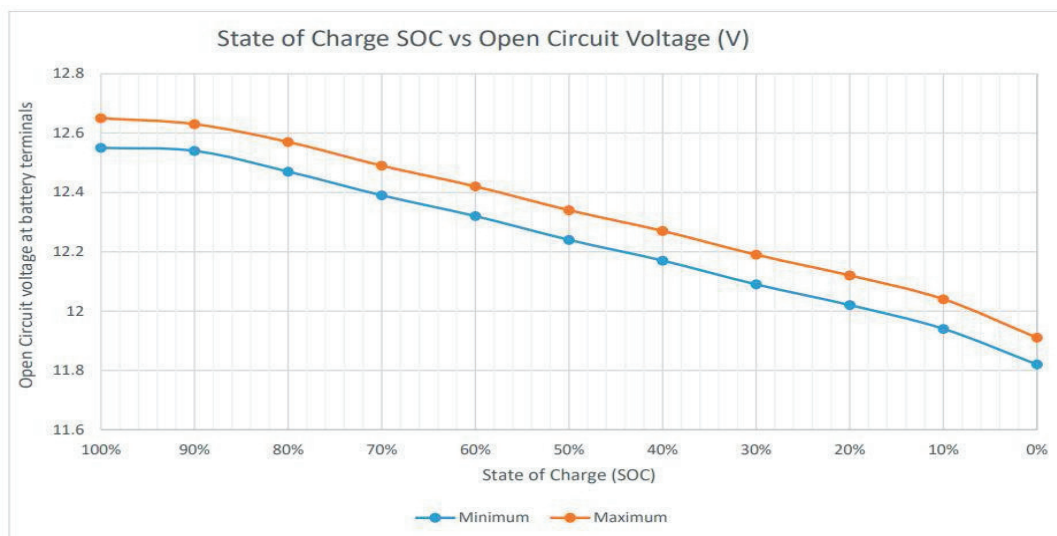
|   |                      |
|---|----------------------|
| Type of +ve plate   | Tubular              |
| Type of -ve plate   | FlatPasted           |
| Terminal Type   | L-Terminal           |
| AH Efficiency   | >90% >80%            |
| WH Efficiency   | $\leq 5\%$ @ 20°C    |
| Self-discharge for per month                              | Max. 90 days at 27°C |
| Recommended Max periodof storage                          |                      |
| Electrolyte specific gravity of the end charge at 27°C    | 1. 255               |
| Electrolyte specific gravity of the end discharge at 27°C | 1.150                |

## Self Discharge Characteristics



- A** No Supplementary charge required  
(Carry out supplementary charge before use if 100% Capacity is required)
- B** Supplementary charge required before use 15.5 V Constant Voltage with 20 % maximum current is required.
- C** Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.

## State of charge (SOC) vs Open circuit Voltages





**AMARA RAJA**  
Gotta be a better way



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