

MADE IN INDIA



**NEOCELL PRO**  
DESIGN FOR LIFE

HIGH PERFORMANCE  
LOW MAINTENANCE



**TALL TUBULAR  
BATTERIES**

Mfd & Mkt. By  
**Neocell Technologies Private Limited**  
Email Id: [wecare@neocellpro.com](mailto:wecare@neocellpro.com)  
Website: [www.neocellpro.com](http://www.neocellpro.com)



## CORE FEATURES

### HIGH SURFACE CARBON

Use of high surface carbon improves the discharge performance by enhancing the overall conductivity of NAM. It increases the capacity by improving utilization of the electrode active materials and restricts lead sulfate crystal growth.

- Fast Charging
- Higher cycle life in PSOC conditions also
- Fast recovery in deep cycle
- Improved electrochemical surface area of negative plate

### SPECIAL GRADE PE SEPARATOR

Use of special grade polyethylene separator with increased back web thickness which means more electrolyte near plates. Suitable for high oxidation environment for deep cycle applications

- Lesser Electrical Resistance
- High Volume Porosity
- Higher Mechanical strength
- Protect Material Shedding

### MICROPORES WOVEN GAUNTLET

Use of micro pores woven gauntlet based on polyester with optimum resin content having reinforced mechanical property which allows maximum ionic transfer through gauntlet pores.

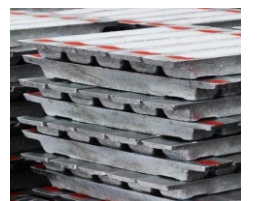
- Lesser electrical resistance
- Mechanical resistance to abrasion
- High volume porosity
- Protect material shedding
- Higher mechanical strength

## TUBULAR TECHNOLOGY

What makes our batteries Superior ?

### Alloy

- Excellent high purity, corrosion – resistant low antimony alloy.
- Deep dischargeable
- Longer shelf life because of very low self discharge



### Spine

- High Pressure die – casted spine which lead to less corrosion and higher life cycle.
- More spines mean more active material which results in higher capacity resulting per given size.



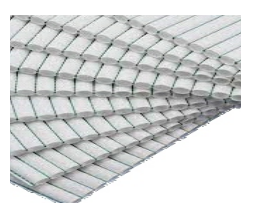
### Separator

- Low electrical resistant & high porosity polyethylene material
- which leads to increase in electrical performance



### Gauntlet

- High bursting strength polyester material which prevents active material shedding.
- Low electrical resistance & High Porosity.



### Curing & Drying Process

- Unique 4 Step curing program provides formation of corrosion layer to facilitate bonding (adhesion) between active material and grid

### Charging Process

- Automatic PLC based high precision ADOR chargers used to optimum programming, data logging and monitoring through PC
- Battery charging with temperature-controlled water tub



## PRODUCT TECHNOLOGY

Raw Material used for enhanced battery performance

- o Pure Lead Alloy
- o 2.5% antimony lead-improves cycle life and reduces water loss
- o Polyethylene separator with higher thickness sleeve type
- o Aesthetic container made of polypropylene with robust drop test passed
- o Gauntlet-100% polyester with resin less than 24%
- o Industrial LR grades sulphuric acid
- o Optimum use of red oxide

### Specifications :

- o Operating temperature range : -15°C to 55 ° C
- o Grid Alloy : Positive 2.5% Sb alloy & negative 2.5% Sb Alloy
- o Applicable Standards : IS 13369-1992
- o Design cycle life : 1100 cycle at 80% DOD & > 2000 Cycle at 50% DOD @ 25°C

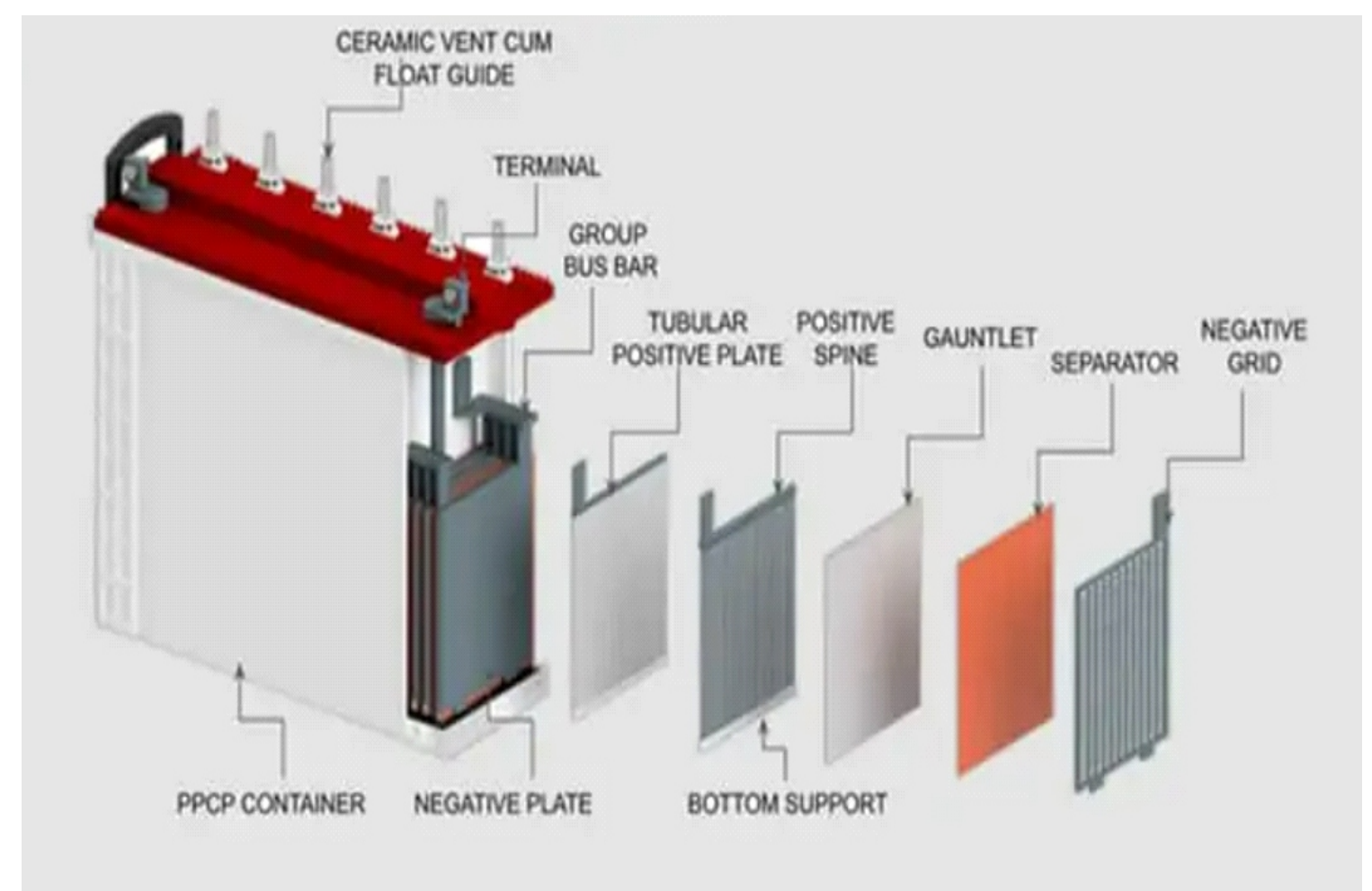
### Key Features: -

- Higher Charge Efficiency
- Low self discharge
- Suitable for frequent power cut areas
- Recommended for tropical climates
- Level indicator for easy maintenance
- Eco friendly aqua trap vent plugs ensuring no acidic fumes
- Reliable and steady performance even on high load

### Unique Features: -

- Advanced Tubular plate technology.
- Thicker & Wider positive spine for very long life
- Special additives and optimized negative paste recipe for fast charge acceptance
- High porous and oxidation resistant gauntlet for extra back up & long life

## PRODUCT CROSS SECTIONAL VIEW PHOTO

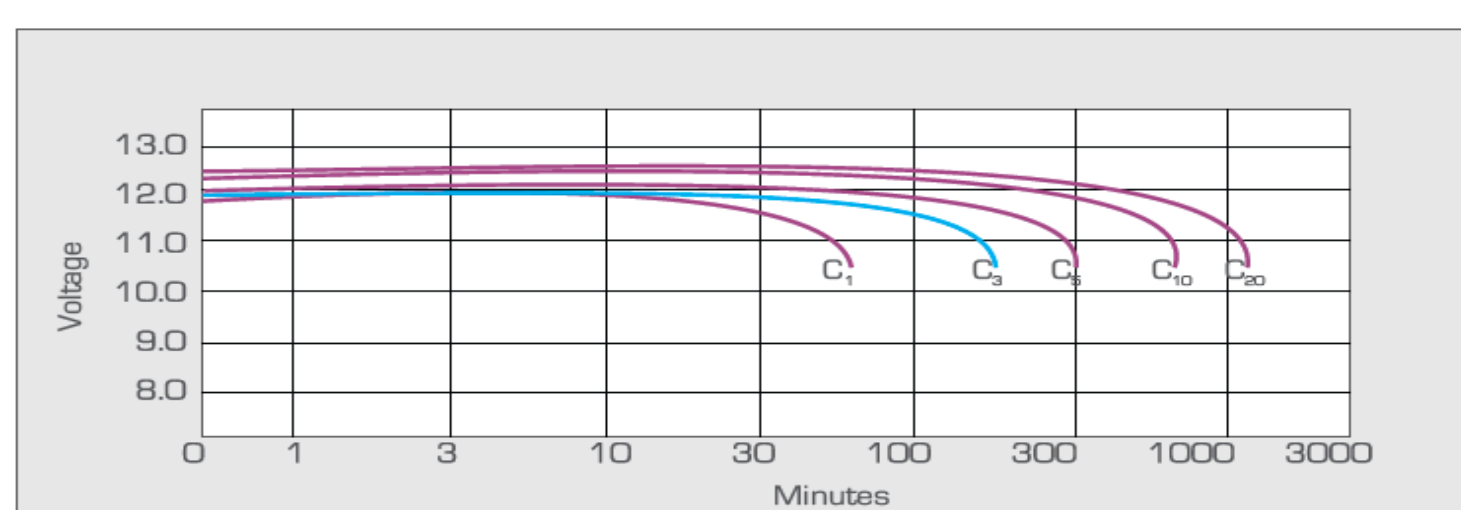


## INVERTER & HOME UPS SERIES

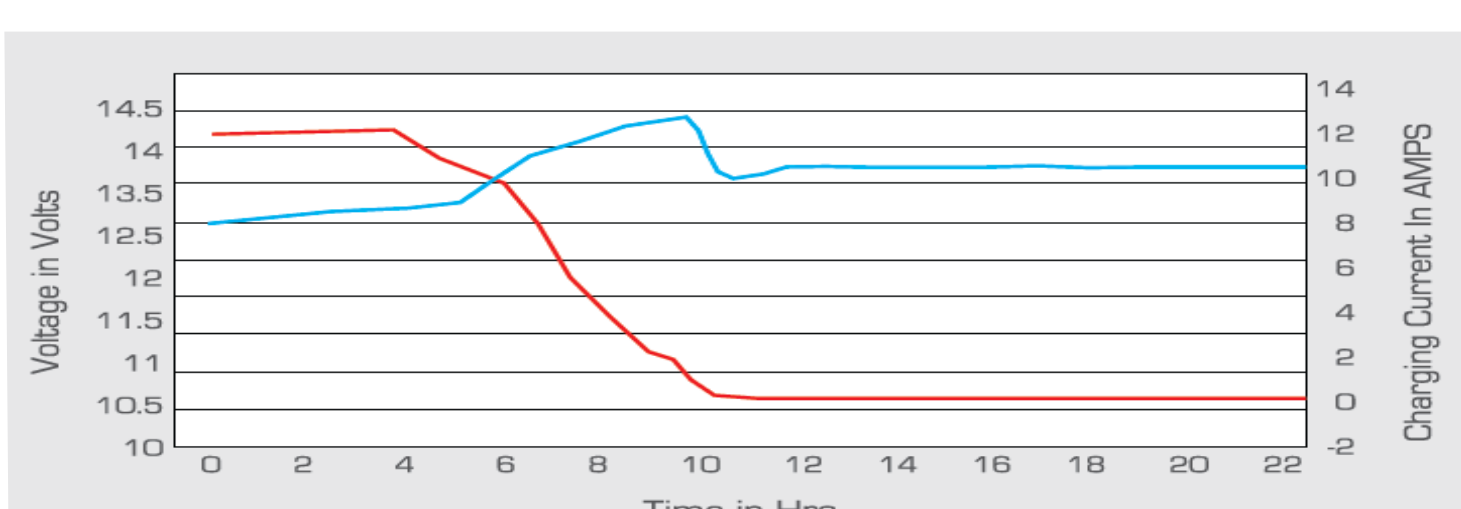
Battery Range

Nominal Voltage	Model Name	Rated C20 Capacity (Ah)	Dimensions in mm			Series
			Length	Width	Height	
12V	NPTT10060	100	505±3	190±3	410±3	Regular
12V	NPTT13560	135	505±3	190±3	410±3	Regular
12V	NPTT15060	150	505±3	190±3	410±3	Regular
12V	NPTT17060	170	505±3	190±3	410±3	Regular
12V	NPTT18060	180	505±3	190±3	410±3	Regular
12V	NPTT20060	200	505±3	190±3	410±3	Regular
12V	NPTT23060	230	505±3	190±3	410±3	Regular
12V	NPTT26060	260	505±3	190±3	410±3	Regular
12V	NPTT30060	300	505±3	190±3	410±3	Regular

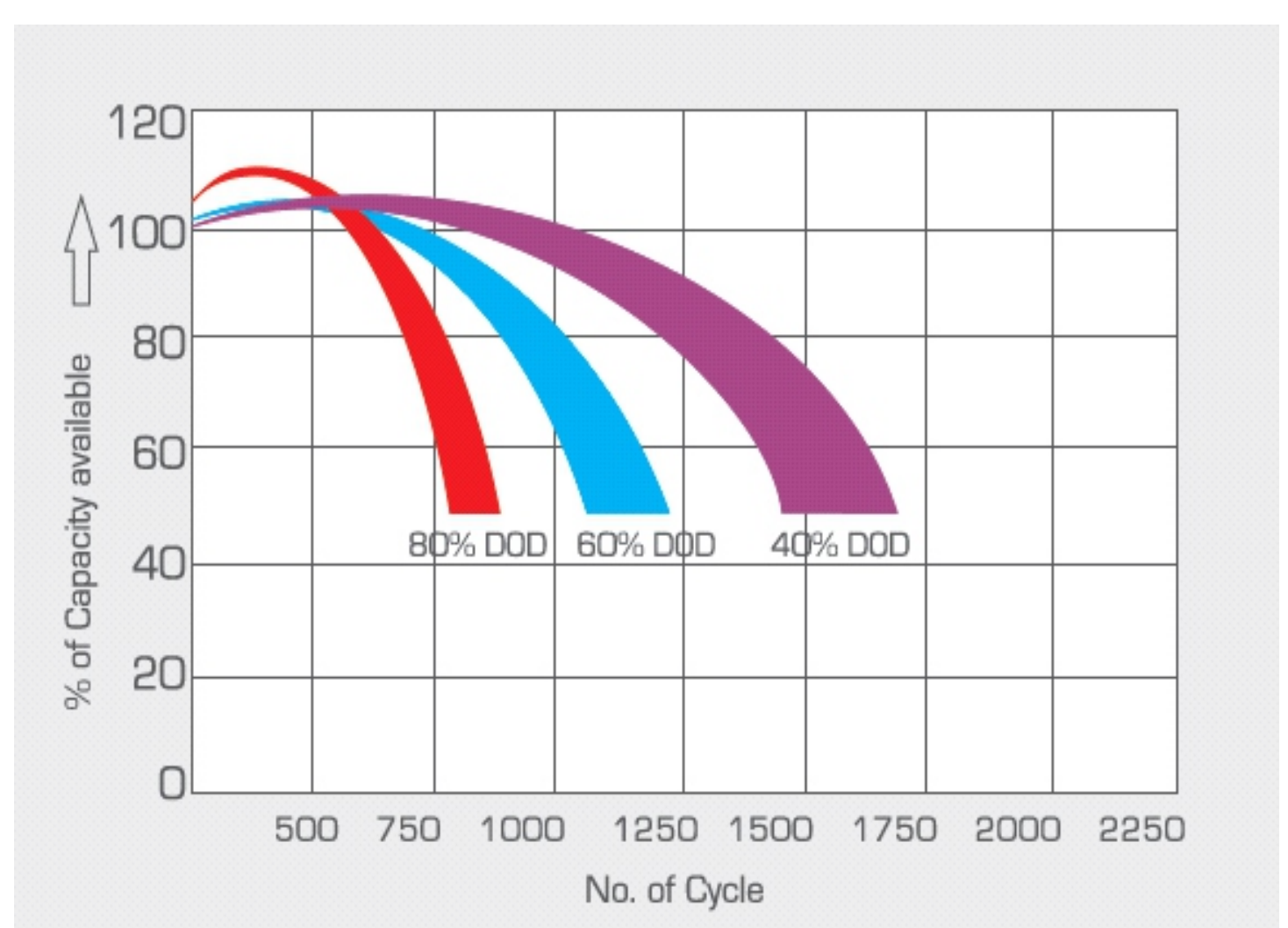
## DISCHARGING CHARACTERISTICS at various rates @ 27°C



## CHARGING CHARACTERISTICS



## Life Cycle @ 27°C



## SOLAR SERIES

Battery Range

Nominal Voltage	Model Name	Rated C10 Capacity (Ah)	Dimensions in mm			Series
			Length	Width	Height	
12V	NS15060TT	150	505±3	190±3	410±3	Solar
12V	NS16060TT	160	505±3	190±3	410±3	Solar
12V	NS18060TT	180	505±3	190±3	410±3	Solar
12V	NS20060TT	200	505±3	190±3	410±3	Solar
12V	NS23060TT	230	505±3	190±3	410±3	Solar
12V	NS26060TT	260	505±3	190±3	410±3	Solar