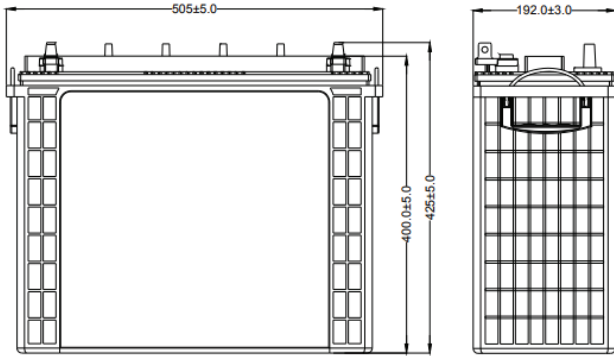


# Tubular Batteries MTU

## MTU-300

300Ah@C20 12V  
265Ah@C10 12V



### Features

- Robust Tubular with High Pressure die-casted spine- resulting low rate of corrosion.
- Spill Proof Vent and controlled acid fumes.
- Optimized Negative paste recipe for fast charge acceptance.
- Consistent backup throughout life.
- Low Self Discharge.
- Excellent performance on deep cyclic application as compare to AGM VRLA.
- Very High Performance & Service Life.
- Low water loss ( $\leq 4\%$ ).

### Applications

Solar, Inverter and deep discharge applications.

#### Battery Construction

Battery container	Polypropylene (PP)
Type of Positive Plate	Tubular Positive
Type of Negative Plate	Flat Pasted
Terminals	Lead- Antimony Alloy
Material of Separator	PE
Electrolyte	H <sub>2</sub> SO <sub>4</sub>
Sealing Method	Heat Sealing
Supplied Condition	Acid Filled

## TECHNICAL SPECIFICATIONS

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Model		MTU -300
Battery Testing Standard		IS 13369:1992
Rated Capacity		C20
Battery Nominal Voltage		12V
Dimensions	Length	505±5mm
	Width	192±3mm
	Height up to Terminal	400 ±5mm
	Height up to Level Indicator	425 ±5mm
Fully Charged Battery	Electrolyte Specific Gravity at 27°C	1.255±0.005
	Battery Dry Weight (±3%)	49.5Kg
	Battery Weight (with electrolyte) (± 3%)	73.0 Kg.
	Battery Weight (with electrolyte) (± 3%)	74.8 Kg.

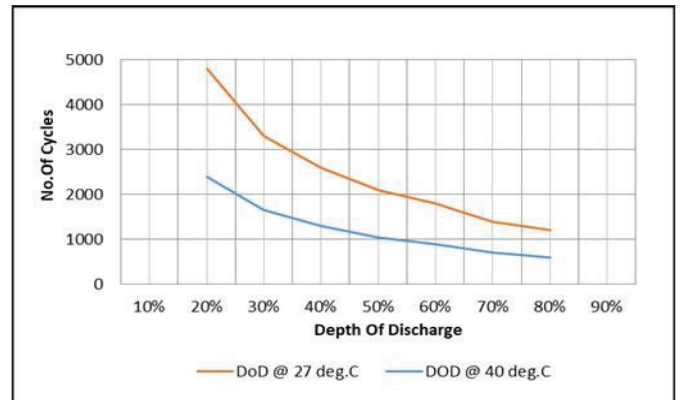
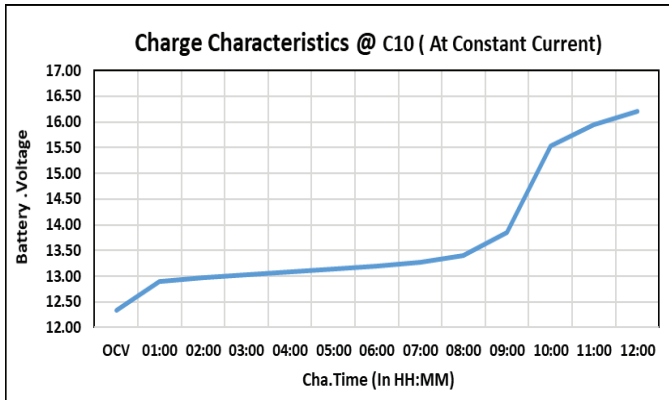
### SPECIFICATIONS

Model		MTU -300
Constant Voltage Charging (CV)	Maximum Charging current	30 A
	Cyclic use	14 .40V
	Float use	13.60 – 13.80V
	Boost Charging	14.8V
	Trickle Charging Current	150 – 500mA

### ELECTRICAL PERFORMANCE

Capacity at 27°C	C20Hour Rate to 10.80V	300Ah
	<b>10 Hour Rate to 10.80V</b>	<b>265Ah</b>
	5 Hour Rate to 10.80V	219.9Ah
	3 Hour Rate to 10.80V	189.3Ah
	1 Hour Rate to 10.50V	132Ah
400Watt (33A) @10.5V Backup Time (In Minimum 3Cycles)		6Hrs 30Min.
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour - Efficiency		> 90.0%
Percentage (%) of Watt-hour - Efficiency		> 75.0%
Cyclic life @80%DOD		1200

## DOD V/S LIFE CYCLE @ ambient temperatures



## Open circuit Voltage & Specific Gravity Vs SOC

State of Charge	Specific Gravity	Voltage
100%	1.260	12.7V
75%	1.225	12.4V
50%	1.190	12.1V
25%	1.155	12.0V
0%	1.120	11.8V

