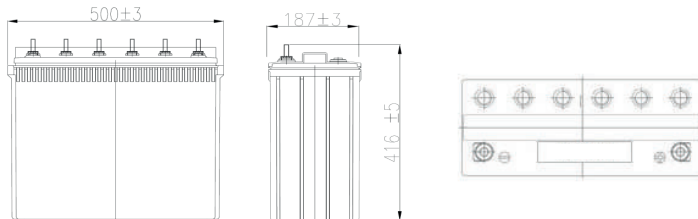


TECHNICAL DATA SHEET FOR MTU 230 Premium (12V @ C20) TUBULAR

BATTERY OUTLINE



12V FLOODED LEAD ACID BATTERY :

TYPE OF BATTERY	MTU 230 Premium
Nominal Voltage	12V
Declared C20 capacity at 27°C up to 1.75 ECV	230
Standards to which battery is manufactured	12V Flooded ranges meets IS13369
Expected life of battery under normal operation & maintenance conditions	Design life in ideal float condition 10 years.
'Loss in capacity in 28 days due to self discharge	<10% per month (As per IS13369)
Ampere hour efficiency	>90%
Watt hour efficiency	>75%
Initial Charging Instructions	
a) Filling In Specific Gravity	1.220±0.005 at 27°C
b) Rest period	12 hrs.
c) Minimum Ah input	900A
d) Initial current input	14.4A upto 2.36V
e) Finishing current	7.2 A upto 2.75V
f) Specific Gravity at fully charged condition	1.250±0.005 at 27°C
g) Normal charging instructions	Recharging through inverter at constant potential mode of 14.4 V with limited current as specified. After battery potential reaches 14.4V, the battery should continue in trickle charge mode at constant potential of 13.5V.
Type of plate	
Positive Plates	Robust tubular plates consisting of a lead Antimony alloy, optimized for high corrosion resistance. Alloy : Lead-Antimony (PbSb).
Negative Plates	Grid plate construction consisting of lead Antimony alloy. Alloy: Lead-Antimony (PbSb).
Type Of Electrolyte	
	Dilute H2SO4
Separators	
	Microporous and robust PE envelop for electrical separation of the positive and negative plates and optimized for low internal resistance.
Type of Vent and Filling Plugs	Microporous- Ceramic
Material Of Container & Cover	Polypropylene polymer
Sealing Method	Heat Sealed
Recommended Storage life of Battery (Dry shelf life)	6 Months
Operating temp range	-20 degC to +55 degC
OCV at 100% SOC	>12.5 Volt/ Battery
Allowable charging current	0.15C Charging
No. of charge-discharge cycle battery can give during its entire life	
at 20% DOD	5000 cycles
at 50% DOD	2000 cycles
at 80% DOD	1000 cycles

SPECIFICATION CHART

Model	Nominal Voltage (V)	Rated Capacity (Ah) at 27°C		Dimensions (in mm.)			Weight (Kg.) +/- 5%	Initial Charge Minimum AH input(AH)	Constant Potential Limiting Current (Amps)	Trickle Charge (Current in Ma)	
		C10 @ 1.75 Vpc	C20 @ 1.75 Vpc	Overall Height +/-5	'L' +/-3	'W' +/-3				Filled	Min
MTU-230 Premium	12V	200Ah	230Ah	416	500	187	77.00	900	50	200	800

CHARACTERISTICS CURVES

