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PRIME make Tubular Plate range of Batteries are designed and manufactured for better performance and long service life even under rigorous usage conditions.

FEATURES

- **SPECIAL PLURI TUBULAR POSITIVE PLATES:**
  For long service under deep cycle usage.
- **LOW ANTIMONY:**
  Designed with low antimony content minimize water loss and thereby reduce the topping requirement.
- **SPECIAL MICROPOROUS SERERATORS:**
  To permit free exchange of ions and prevent short circuit risks
- **VERY LOW SELF-DISCHARGE.**
- **BATTERY CONTAINERS:**
  A high impact, versatile, leak proof and durable polypropylene container.
- **VENT PLUGS:**
  Specially designed vent plugs and cell covers to prevent leakage of acid, fumes and gases, thus providing the connectors and terminals from corrosion and providing safety.
- **WIDE OPERATING TEMPERATURE RANGE.**

APPLICATIONS

- UPS Systems
- Inverters
- Alarm Systems, EPABX
- Emergency Lighting
- Hospitals
- Switchgear Operations (Sub-Stations)
- Solar Photovoltaic & Wind Power
- Communication Networks

HEAT SEALED TUBULAR STATIONERY BATTERY SERIES

Battery Specifications

Type	C Capacity (Ah)	Nominal Voltage (V)	Battery Weight		Overall dimensions in (mm) ± 3 mm			Approx. Acid quantity in Liters	Constant current charge (Amps)	
			Without Acid ± 5%	With Acid ± 5%	LH mm	W mm	H mm		Start	Finish
6PB 20PPT	20	12	10	16	256	172	240	4.7	2.4	1.2
6PB 40PPT	40	12	14	19	305	172	248	4.1	4.8	2.4
6PB 60PPT	40	12	20	30	411	173	260	7.6	7.2	3.6
6PB 80PPT	60	12	24	33	513	212	256	7.4	9.0	4.5
6PB 100PPT	100	12	28	45	518	275	265	14.0	12.0	6.0
6PB 120PPT	120	12	36	55	518	275	265	14.5	15.0	8.0
6PB 135PPT	135	12	37.5	58	518	275	265	14.5	15.6	7.8
6PB 150PPT	150	12	43	60	518	275	265	14.8	20.0	10.0

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Introducing PRIME Tall Tubular Series of Future Generation Tubular Batteries with maintenance free characteristics

FEATURES

- Specially mixed corresion free alloy for spines & grids.
- Tubular gauntlets of high brushing strength with high performance for positive plates.
- Specially made seperator envelopes.
- Electrolyte volume per Ah is very much higher than ordinary tubular batteries.
- Almost maintenance Free battery.
- Tower type design requires less floor space.

Battery Specifications

Type	C Capacity (Ah)	Nominal Voltage (V)	Battery Weight With Acid ± 5%	Overall dimensions in (mm) ± 3 mm		
				LH mm	W mm	H mm
PT 100	100	12	50	500	190	445
PT 120	120	12	53	500	190	445
PT 150	150	12	57	500	190	445
PT 180	180	12	61	500	190	445
PT 200	200	12	64	500	190	445
PT 200	220	12	66	500	190	445

Tubular Battery Discharge Characteristics

eg. 100ah battery

Rale of discharge (Time)	Rate of discharge (amperes)	percent of 10 th rate capacity	Cut-off voltage per 12V battery
10h	10.00	100	11.10
9h	10.90	98	11.04
8h	11.90	95	11.04
7h	13.00	92	10.98
6h	14.70	88	10.98
5h	16.60	83	10.92
4h	18.00	78	10.86
3h	24.00	72	10.80
2h	31.5	63	10.68
1h	50.00	50	10.50

Rated Capacities at 27°C in Ah

Discharge Rate	10Hr.	3Hr.	1Hr.	30 min	15 min	5 min
Cut off Voltage	10.50V	10.50v	10.50v	9.60v	9.60v	9.60v
6PB 20PPT	20	15	10	8	6.4	3.0
6PB 40PPT	40	29	20	16	12.8	6.0
6PB 60PPT	60	43	29	24	19.0	9.0
6PB 80PPT	80	55	38	32	25.0	12.0
6SPB 100PPT	100	72	51	40	32.0	15.0
6PB 120PPT	120	86	60	48	39.0	18.0
6BPB 135PPT	135	96	67	53	42.0	20.0

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Solar Batteries

Capacities in 2 volts Cells from 40 to 500 Ampere Hours In 12volts Mono Block Battery 40 to 220 Ampere - Hours

PRIME make Tubular Plate range of Batteries are designed and manufactured for better performance and long service life even under rigorous usage conditions.

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- **SPECIAL MICROPOROUS SERERATORS:**
  To permit free exchange of ions and prevent short circuit risks
- **VERY LOW SELF-DISCHARGE.**
- **BATTERY CONTAINERS:**
  A high impact, versatile, leak proof and durable polypropylene container.
- **VENT PLUGS:**
  Specially designed vent plugs and cell covers to prevent leakage of acid, fumes and gases, thus providing the connectors and terminals from corrosion and providing safety.
- **WIDE OPERATING TEMPERATURE RANGE.**

APPLICATIONS

- **UPS Systems**
- **Inverters**
- **Alarm Systems, EPABX**
- **Emergency Lighting**
- **Hospitals**
- **Switchgear Operations (Sub-Stations)**
- **Solar Photovoltaic & Wind Power**
- **Communication Networks**

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- **SPECIAL MICROPOROUS SERERATORS:**
  To permit free exchange of ions and prevent short circuit risks
- **VERY LOW SELF-DISCHARGE.**
- **BATTERY SHELL:**
  A high impact, versatile, leak proof and durable hard rubber/polypropylene container.
- **VENT PLUGS:**
  Specially designed vent plugs and cell covers to prevent leakage of acid, fumes and gases, thus providing the connectors and terminals from corrosion and providing safety.
- **WIDE OPERATING TEMPERATURE RANGE.**

APPLICATIONS

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Solar Photo Voltaic Applications

On / Off type

- Over Voltage Disconnect — 2.370 ± 0.005 V/Cell at 25°C
- Array Reconnec on Voltage — 2.250 ± 0.005 V/Cell at 25°C
- Low Voltage Disconnect — 1.850 ± 0.005 V/Cell at 25°C
- Load Reconnect Voltage — 2.080 ± 0.005 V/Cell at 25°C

Pulse Width Modulation (*CV Controller) Type

- Regulation Voltage — 2.350 ± 0.005 V/Cell at 25°C
- Low Voltage Disconnect — 1.850 ± 0.005 V/Cell at 25°C
- Load Reconnection on voltage — 2.080 ± 0.005 V/Cell at 25°C

Telecom and other Applications

Float Applications

- Float Voltage — 2.250 ± 0.005 V/Cell at 25°C
- Boost Volatage — 2.300 ± 0.005 V/Cell at 25°C
- Equalizing Charge — 2.35 ± 0.005 V/Cell at 25°C
- Current Limit — 0.1 C_{10} ± Amps (Man.) to 0.2 C_{10} Amps (Max.)
- Ripple — Should be less than 3% RMS
- Float to boost change over — Battery charging current is>5% of C_{10} Amps
- Boost to float change over — Battery charging current is>3% of C_{10} Amps

Cyclic Applications

- Float Voltage — 2.250 ± 0.005 V/Cell at 25°C
- Boost Volatage — 2.350 ± 0.005 V/Cell at 25°C
- Equalizing Charge — 2.37 ± 0.005 V/Cell at 25°C
- Current Limit — 0.1 C_{10} ± Amps (Man.) to 0.2 C_{10} Amps (Max.)
- Ripple — Should be less than 3% RMS
- Float to boost change over — Battery charging current is>5% of C_{10} Amps
- Boost to float change over — Battery charging current is>3% of C_{10} Amps

Cell type	Material of Container	Capacity in Ah at 27°C 10Hr	Capacity in Ah at 27°C 20Hr	Overall dimensions in			Cell weight (appx.kgs.	Cell weight (appx.kgs.	Electrolyte Qty 1.200 Sp. Gr. App.) in Liters	Changing Current			
				L+ 5 mm	W+ 5 mm	H+ 10 mm	Without Electrolyte	With Electrolyte		Initial Charging	Initial No. of Hrs.	Normal Charging	Equalizing Charging rate
T40P LM	PPCP	40	48	98	165	235	3.50	5.75	1.40	4.0	40	4	1.2
T80P LM	PPCP	80	96	180	116	355	5.30	8.70	2.80	5.0	70	8	2.4
T100P LM	PPCP	100	120	182	116	355	7.70	12.50	4.00	5.0	80	10	3.0
T120P LM	PPCP	120	1440	182	116	355	7.70	12.50	4.00	6.0	80	12	3.6
T150P LM	PPCP	150	180	260	169	245	10.65	19.70	7.50	7.5	80	15	4.5
T200P LM	PPCP	200	240	260	169	345	12.10	20.00	6.60	15.0	65	20	6.0
T250P LM	PPCP	250	300	260	169	520	15.90	28.50	10.50	12.5	80	25	7.5
T300P LM	PPCP	300	360	260	169	520	17.30	29.00	9.75	15.0	80	30	9.0
T400P LM	PPCP	400	480	260	169	520	23.40	35.40	10.00	20.0	80	40	12.0
T500P LM	PPCP	500	600	260	169	520	27.50	41.30	11.50	25.0	80	50	15.0

Note :

PPCPPoly Propylene Copolymer
All cells and ba eries are supplied in dry un charged condition
The electrical characteristics are nominal indicative value and can very within 5.0%
In case of cells/batteries in Dry and Uncharged condition the filling charging is to carried is to be carried is to be carried out as per the parameters mentioned in Technical data sheet

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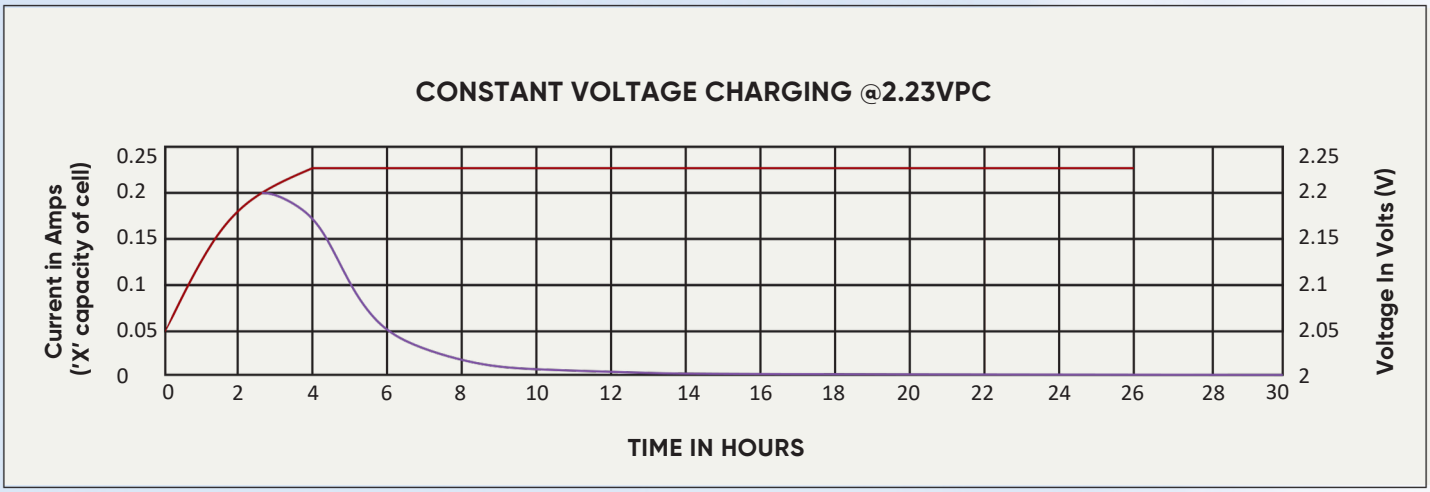
Charging Curve for Tubular Stationary Battery



Battery racks for flooded LMLA Cells :

Battery racks offered as per customer requirements either steel, Galvanized Iron (GI), Fiber Reinforced Plas c (FRP), Wood (Sal wood or Teak wood) painted with acid resistant paint.
The racks are of Single Tier Single row / Double row, Double Tier Single row / double row or stepped.

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