

SOLAR TUBULAR BATTERY

TECHKRAFT
Industries India



Techkraft Industries

Since the last two decades, Techkraft Industries has been into manufacturing of battery parts, especially battery plates. With the success in the manufacturing of battery plates, the process of expansion began. It led to Techkraft Industries manufacturing its own batteries. The batteries designed by Techkraft Industries are technology driven and till date, they have been keeping up with the technological advancements.



Core Values



Our core values form the working culture and behaviour for us at Techkraft. We prioritize the safety and quality of our products to deliver our clients with integrity. We build sustainable value by achieving business and personal goals with the help of the latest technology.

Vision



We strive to create a synergy between technology, systems, quality of our product and people, so that we deliver our people with the best quality product.

Mission



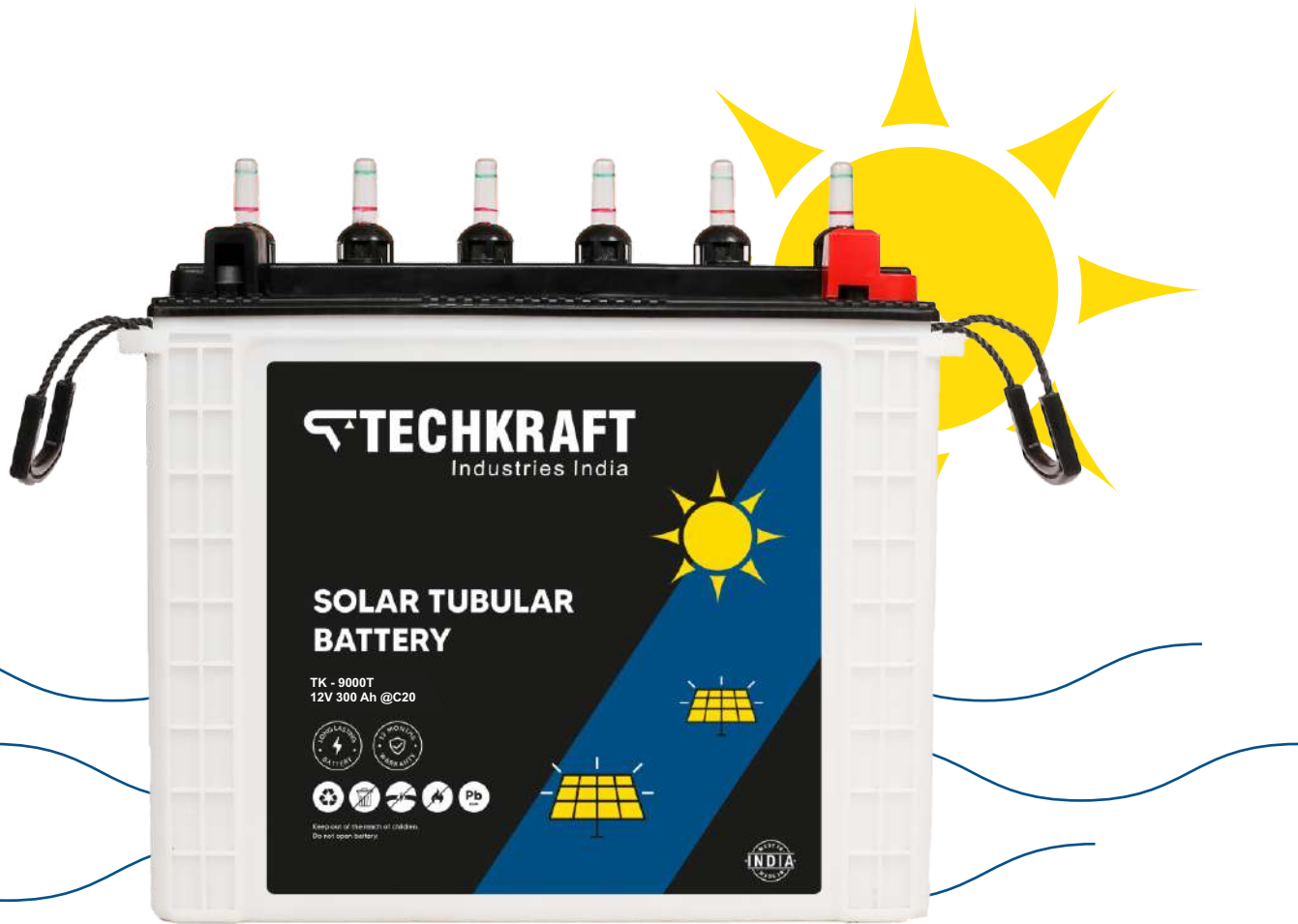
Our mission is to deliver world class products across different countries, to provide our clients a competitive advantage. we ensure that the quality of our products manufactured are up-to-date with the latest technology and our systems are continuously enhanced.



PARTICULARS & MODELS	TT100	TT150	TT180	TT200	TT240	TT270	TT300
Battery Type	TT100	TT150	TT180	TT200	TT240	TT270	TT300
Rated Capacity At 20 Hour Rate	100Ah	100Ah	180Ah	200Ah	240Ah	270Ah	300Ah
Battery Nominal Voltage	12V	12V	12V	12V	12V	12V	12V
Electrolyte Specific Gravity at 27°C	1.250±0.010	1.250±0.010	1.250	1.250±0.010	1.250±0.010	1.250±0.010	1.250
Packed Weight (±3%)	51kg.	57kg.	61kg.	64kg.	67kg.	71kg.	75kg.
DIMENSIONS							
Length	503±3 mm	503±3 mm	503±3 mm	503±3 mm	503±3 mm	503±3 mm	503±3 mm
Width	189±2 mm	189±2 mm	189±2 mm	189±2 mm	189±2 mm	189±2 mm	189±2 mm
Height up to Terminal	354±3 mm	354±3 mm	354±3 mm	354±3 mm	354±3 mm	354±3 mm	354±3 mm
ELECTRICAL PERFORMANCE							
Capacity at 27°C							
20 Hour Rate to 10.80V	100.0Ah	150.0Ah	180.0Ah	200.0Ah	240.0Ah	270.0Ah	300.0Ah
10 Hour Rate to 10.80V	88.0Ah	132.0Ah	158.5Ah	167.5Ah	211.0Ah	210.0Ah	264.0Ah
5 Hour Rate to 10.80V	73.5Ah	110.0Ah	132.0Ah	139.5Ah	177.5Ah	163.0Ah	220.5Ah
3 Hour Rate to 10.80V	63.5Ah	95.0Ah	114.0Ah	120.0Ah	153.5Ah	150.5Ah	190.5Ah
1 Hour Rate to 10.80V	44.0Ah	66.0Ah	80.0Ah	84.0Ah	105.5Ah	97.5Ah	132.0Ah
% Loss of capacity on storage per month at 27°C	< 5.0%	< 5.0%	< 5.0%	< 5.0%	< 5.0%	< 5.0%	< 5.0%
% of Ampere-Hour-Efficiency	> 92.0%	> 92.0%	> 92.0%	> 92.0%	> 92.0%	> 92.0%	> 92.0%
% of Watt-Hour-Efficiency	>78.0%	>78.0%	>78.0%	>78.0%	>78.0%	>78.0%	>78.0%
BATTERY CHARGING							
Constant Voltage Charging (CV)							
Maximum Charging Current	20.0A	20.0A	20.0A	20.0A	20.0A	20.0A	20.0A
Cyclic Use	14.40±0.05V	14.40±0.05V	14.40±0.05V	14.40±0.05V	14.40±0.05V	14.40±0.05V	14.40±0.05V
FLoat Use	13.80±0.05V	13.80±0.05V	13.80±0.05V	13.80±0.05V	13.80±0.05V	13.80±0.05V	13.80±0.05V
Constant Current Charge (CC)							
Maximum Charging Current	10.0A	15.0A	17.0A	19.0A	21.0A	23.0A	25.0A
Battery Backup Hours	1:10	2:40	3:20	4:15	5:00	5:35	6:00







Solar Tubular Batteries

The Solar Tubular Batteries manufactured by Techkraft are way ahead in design and technology than other available options in the market. They integrate a solar cell with battery power storage. These rechargeable batteries have been developed specifically for use in photo voltaic systems. Its a next generation of tubular batteries designed specially to withstand long frequent power cuts and requiring very low maintenance with high performance.

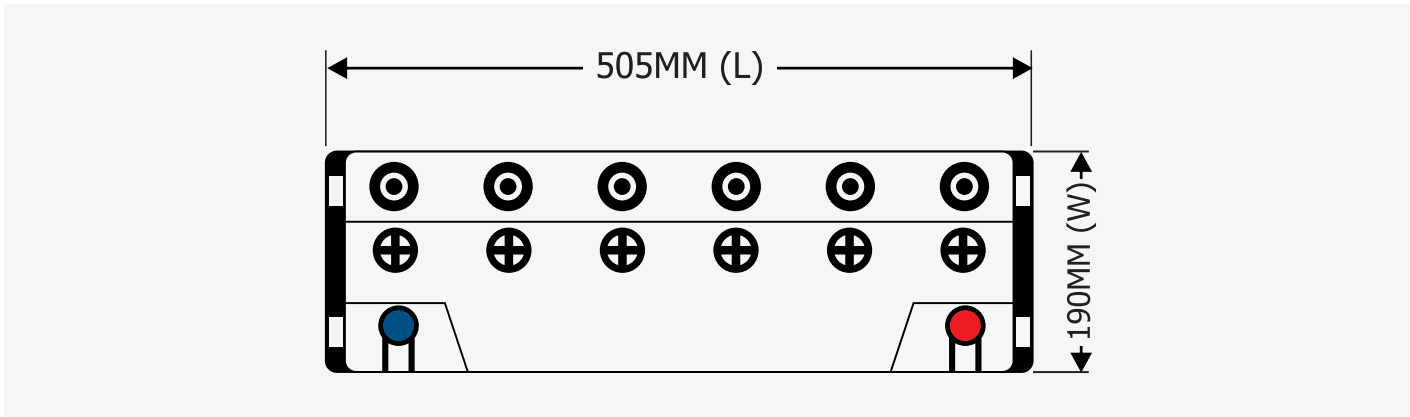
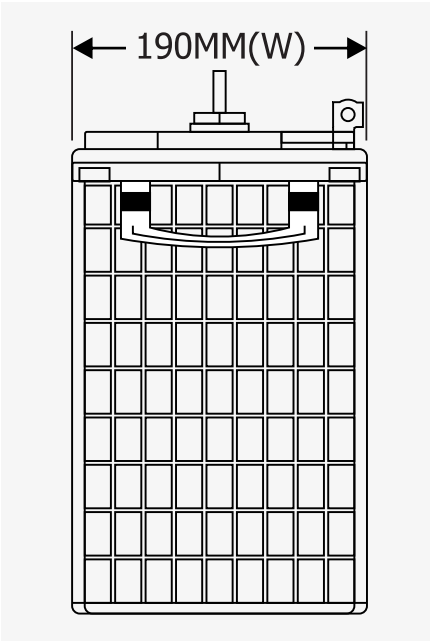
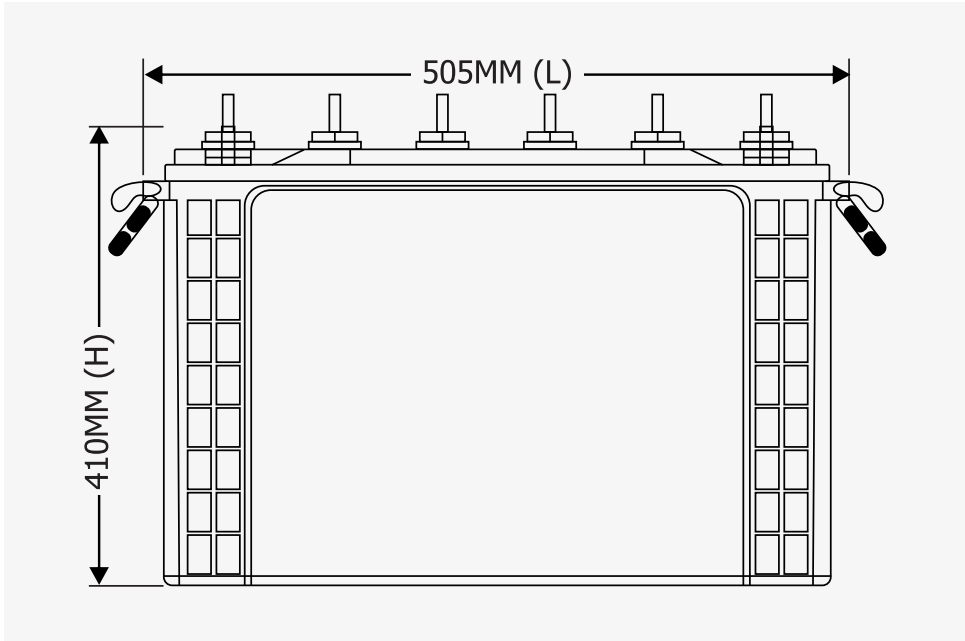


Techkraft Industries Private Limited manufactures solar tubular batteries for a source of alternative energy. It overhauls all the problems that give rise to sudden power breaks and is a next generation designer battery with ultra low maintenance.

Application







-  UPS System
-  Solar Application
-  Telecommunications
-  Home / Office Power Backup Systems
-  Fire & Security Systems
-  Home Inverters

Solar Tubular Batteries - Dimensions



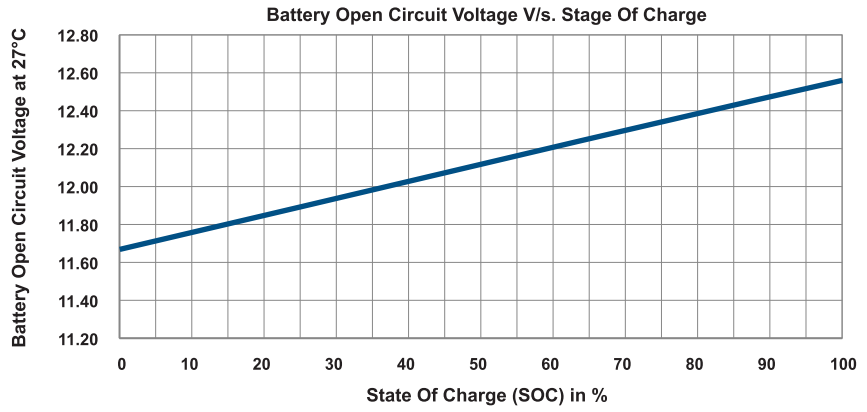
Solar Tubular Batteries - Features



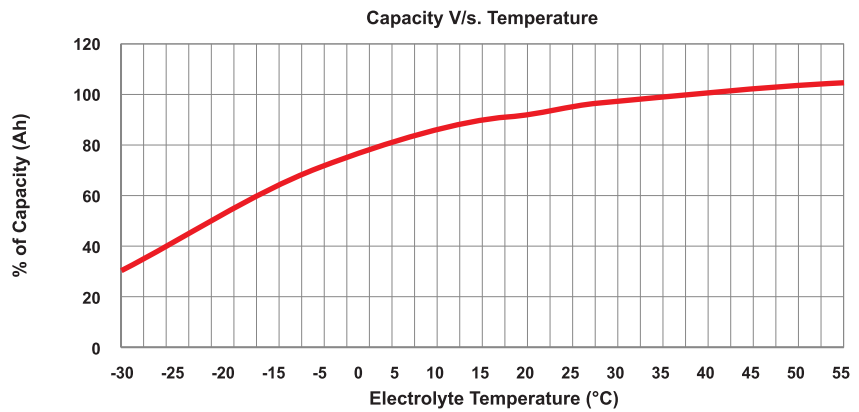
-  Fast Charging
-  Deep Cycle Applications
-  Designed for solar applications
-  Superior Performance
-  Highly Reliable
-  Ultra-Low Maintenance

Technical Specifications

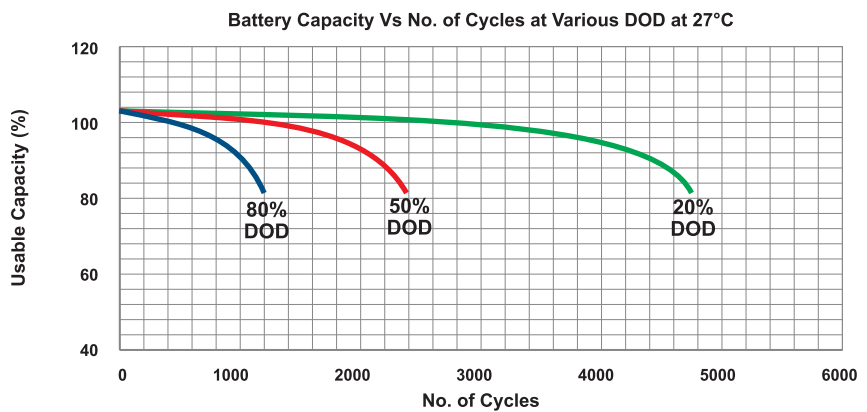
Battery State of Charge (SOC)



Battery Capacity v/s Temperature



Battery Life Cycles Characteristics at 27°C



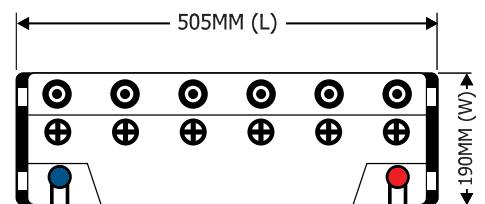
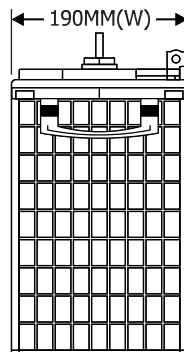
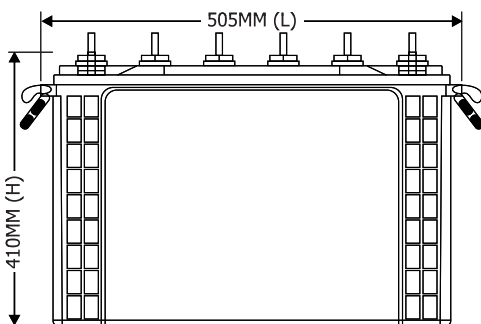
Solar Tall Tubular Battery

Model - 100TT

100Ah @C20 12V

Battery Type	TT100		
Rated Capacity at 20 Hour Rate	100Ah		
Battery Nominal Voltage	12V		
Gross Weight (± 3%)	51.00 KG		
Net Weight (± 3%)	50.00 KG		
ELECTRICAL PERFORMANCE	Capacity at 27°C	20 Hour Rate to 10.80V 10 Hour Rate to 10.80V 5 Hour Rate to 10.80V 3 Hour Rate to 10.80V 1 Hour Rate to 10.80V	100.0 Ah 88.0 Ah 73.5 Ah 63.5 Ah 44.0 Ah
	Self Discharged Per Month at 27 C	<4.0	
	Percentage(%) of Ampere Hour Efficiency	>92.0%	
	Percentage(%) of Watt Hour Efficiency	>78.0%	
BATTERY CHARGING	Deep discharged battery charged by Battery Charger	Current Time Acid Temperature	10 Amp 12 Hr <50°C
	Deep discharged battery charged by Inverter	Current Time Acid Temperature	14 Amp 9 Hr <50°C
	Freshning Charge with Battery Charger	Current Time Acid Temperature	10 Amp 6 Hr <50°C

Recommended cut off voltage - 10.8V



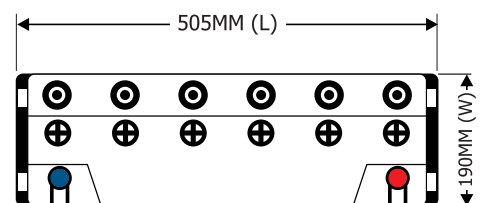
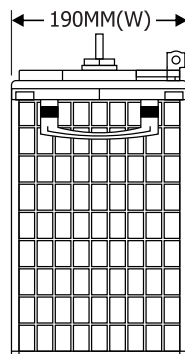
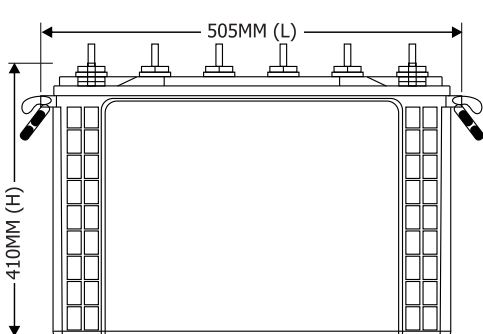
Recommended charging current for daily uses - 100 Ah - 10-14 Amp

Solar Tall Tubular Battery Model - 150TT

150Ah @C20 12V

Battery Type	TT150		
Rated Capacity at 20 Hour Rate	150Ah		
Battery Nominal Voltage	12V		
Gross Weight ($\pm 3\%$)	57.00 KG		
Net Weight ($\pm 3\%$)	55.70 KG		
ELECTRICAL PERFORMANCE	Capacity at 27°C	20 Hour Rate to 10.80V	150.0 Ah
		10 Hour Rate to 10.80V	120.0 Ah
		5 Hour Rate to 10.80V	100.0 Ah
		3 Hour Rate to 10.80V	85.0 Ah
		1 Hour Rate to 10.80V	60.0 Ah
BATTERY CHARGING	Self Discharged Per Month at 27 C Percentage(%) of Ampere Hour Efficiency Percentage(%) of Watt Hour Efficiency		<4.0
			>92.0%
			>78.0%
BATTERY CHARGING	Deep discharged battery charged by Battery Charger	Current	12 Amp
		Time	14 Hr
		Acid Temperature	<50°C
BATTERY CHARGING	Deep discharged battery charged by Inverter	Current	14 Amp
		Time	12 Hr
		Acid Temperature	<50°C
BATTERY CHARGING	Freshning Charge with Battery Charger	Current	12 Amp
		Time	7 Hr
		Acid Temperature	<50°C

Recommended cut off voltage - 10.8V



Recommended charging current for daily uses - 150 Ah - 12-16 Amp

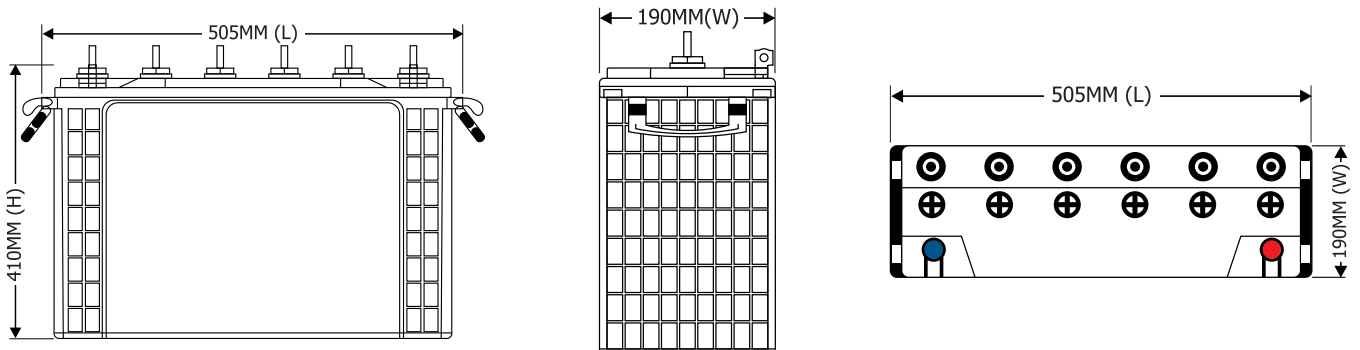
Solar Tall Tubular Battery

Model - 180TT

180Ah @C20 12V

Battery Type	TT180		
Rated Capacity at 20 Hour Rate	180 Ah		
Battery Nominal Voltage	12V		
Gross Weight ($\pm 3\%$)	61.30 KG		
Net Weight ($\pm 3\%$)	60.20 KG		
ELECTRICAL PERFORMANCE	Capacity at 27°C	20 Hour Rate to 10.80V 10 Hour Rate to 10.80V 5 Hour Rate to 10.80V 3 Hour Rate to 10.80V 1 Hour Rate to 10.80V	180.0 Ah 158.0 Ah 132.0 Ah 114.0 Ah 80.0 Ah
	Self Discharged Per Month at 27 C		<4.0
	Percentage(%) of Ampere Hour Efficiency		>92.0%
	Percentage(%) of Watt Hour Efficiency		>78.0%
	BATTERY CHARGING	Deep discharged battery charged by Battery Charger	Current Time Acid Temperature
Deep discharged battery charged by Inverter		Current Time Acid Temperature	14 Amp 16 Hr <50°C
Freshning Charge with Battery Charger		Current Time Acid Temperature	14 Amp 8 Hr <50°C

Recommended cut off voltage - 10.8V



Recommended charging current for daily uses -200 Ah - 14-18 Amp

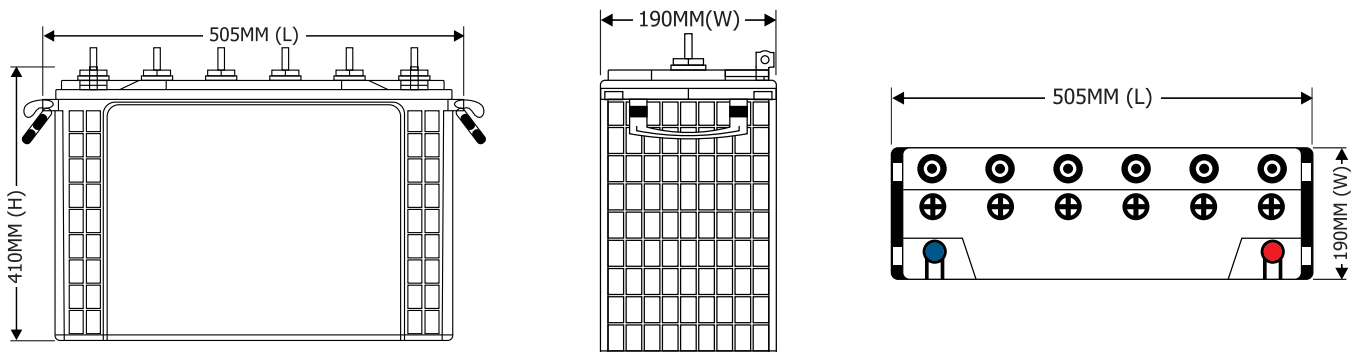
Solar Tall Tubular Battery

Model - 200TT

200Ah @C20 12V

Battery Type	TT200		
Rated Capacity at 20 Hour Rate	200 Ah		
Battery Nominal Voltage	12V		
Gross Weight ($\pm 3\%$)	64.50 KG		
Net Weight ($\pm 3\%$)	63.20 KG		
ELECTRICAL PERFORMANCE	Capacity at 27°C	20 Hour Rate to 10.80V 10 Hour Rate to 10.80V 5 Hour Rate to 10.80V 3 Hour Rate to 10.80V 1 Hour Rate to 10.80V	200.0 Ah 175.0 Ah 145.0 Ah 125.0 Ah 90.0 Ah
	Self Discharged Per Month at 27 C	<4.0	
	Percentage(%) of Ampere Hour Efficiency	>92.0%	
	Percentage(%) of Watt Hour Efficiency	>78.0%	
BATTERY CHARGING	Deep discharged battery charged by Battery Charger	Current Time Acid Temperature	14 Amp 16 Hr <50°C
	Deep discharged battery charged by Inverter	Current Time Acid Temperature	14 Amp 16 Hr <50°C
	Freshning Charge with Battery Charger	Current Time Acid Temperature	14 Amp 8 Hr <50°C

Recommended cut off voltage - 10.8V



Recommended charging current for daily uses -200 Ah - 14-18 Amp

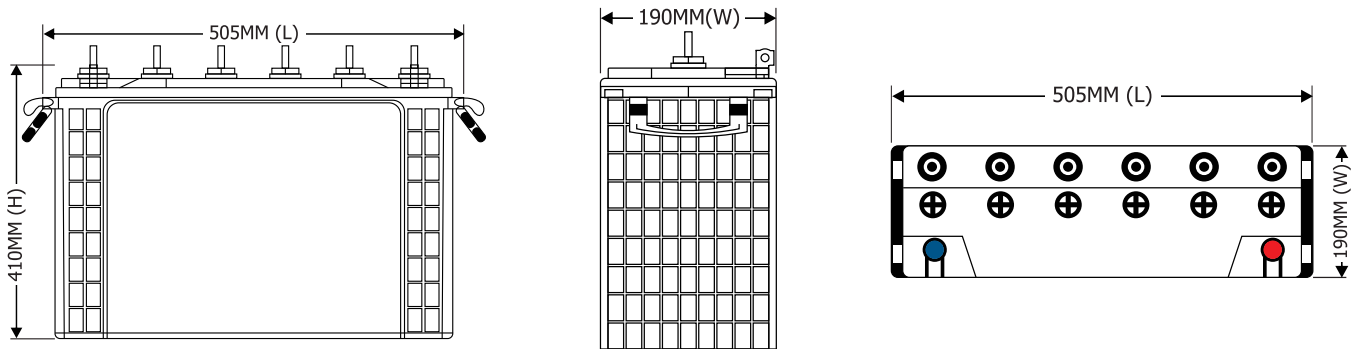
Solar Tall Tubular Battery

Model - 240TT

240Ah @C20 12V

Battery Type	TT240	
Rated Capacity at 20 Hour Rate	240 Ah	
Battery Nominal Voltage	12V	
Gross Weight (± 3%)	67.30 KG	
Net Weight (± 3%)	66.00 KG	
ELECTRICAL PERFORMANCE	Capacity at 27°C	20 Hour Rate to 10.80V 10 Hour Rate to 10.80V 5 Hour Rate to 10.80V 3 Hour Rate to 10.80V 1 Hour Rate to 10.80V
	Self Discharged Per Month at 27 C	<4.0
	Percentage(%) of Ampere Hour Efficiency	>92.0%
BATTERY CHARGING	Percentage(%) of Watt Hour Efficiency	>78.0%
	Deep discharged battery charged by Battery Charger	Current: 15 Amp Time: 18 Hr Acid Temperature: <50°C
	Deep discharged battery charged by Inverter	Current: 14 Amp Time: 19 Hr Acid Temperature: <50°C
Freshning Charge with Battery Charger	Current: 15 Amp Time: 9 Hr Acid Temperature: <50°C	

Recommended cut off voltage - 10.8V



Recommended charging current for daily uses - 240 Ah - 16-22 Amp

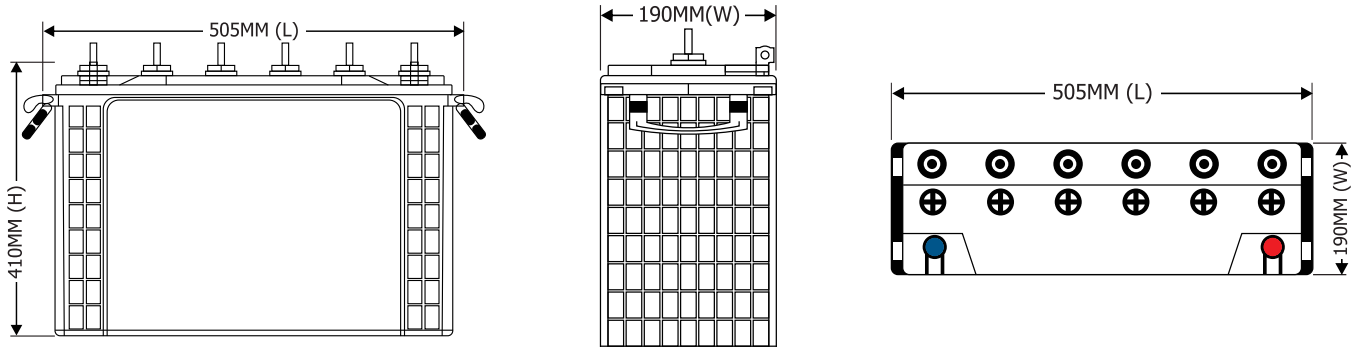
Solar Tall Tubular Battery

Model - 270TT

270Ah @C20 12V

Battery Type	TT270		
Rated Capacity at 20 Hour Rate	270 Ah		
Battery Nominal Voltage	12V		
Gross Weight (± 3%)	71.30 KG		
Net Weight (± 3%)	70.00 KG		
ELECTRICAL PERFORMANCE	Capacity at 27°C	20 Hour Rate to 10.80V	270.0 Ah
		10 Hour Rate to 10.80V	240.0 Ah
		5 Hour Rate to 10.80V	200.0 Ah
		3 Hour Rate to 10.80V	170.0 Ah
1 Hour Rate to 10.80V		120.0 Ah	
BATTERY CHARGING	Self Discharged Per Month at 27°C		<4.0
	Percentage(%) of Ampere Hour Efficiency		>92.0%
	Percentage(%) of Watt Hour Efficiency		>78.0%
	Deep discharged battery charged by Battery Charger	Current	15 Amp
		Time	22 Hr
		Acid Temperature	<50°C
Deep discharged battery charged by Inverter	Current	14 Amp	
	Time	24 Hr	
	Acid Temperature	<50°C	
Freshing Charge with Battery Charger	Current	15 Amp	
	Time	10 Hr	
	Acid Temperature	<50°C	

Recommended cut off voltage - 10.8V



Recommended charging current for daily uses - 270 Ah - 18-24 Amp

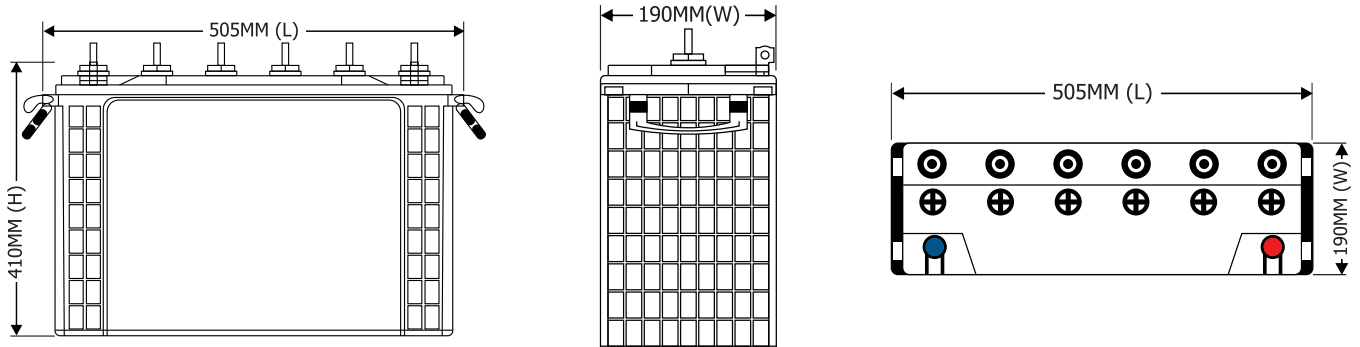
Solar Tall Tubular Battery

Model - 300TT

300Ah @C20 12V

Battery Type	TT300		
Rated Capacity at 20 Hour Rate	300 Ah		
Battery Nominal Voltage	12V		
Gross Weight (± 3%)	75.50 KG		
Net Weight (± 3%)	74.20 KG		
ELECTRICAL PERFORMANCE	Capacity at 27°C	20 Hour Rate to 10.80V	300.0 Ah
		10 Hour Rate to 10.80V	264.0 Ah
		5 Hour Rate to 10.80V	220.0 Ah
		3 Hour Rate to 10.80V	190.0 Ah
1 Hour Rate to 10.80V		132.0 Ah	
Self Discharged Per Month at 27°C		<4.0	
Percentage(%) of Ampere Hour Efficiency		>92.0%	
Percentage(%) of Watt Hour Efficiency		>78.0%	
BATTERY CHARGING	Deep discharged battery charged by Battery Charger	Current	15 Amp
		Time	22 Hr
	Acid Temperature	<50°C	
Deep discharged battery charged by Inverter	Current	14 Amp	
	Time	24 Hr	
Acid Temperature	<50°C		
Freshning Charge with Battery Charger	Current	15 Amp	
Time	10 Hr		
Acid Temperature	<50°C		

Recommended cut off voltage - 10.8V



Recommended charging current for daily uses - 300 Ah - 18-24 Amp

BEGIN

Commenced battery production unit

2008

SCALING

Started exports in the Indian sub-continent countries

2014

GROWING

Set up the distribution channel across India

2012

OPENINGS

Started exporting our batteries to Middle East countries

2016

2018

SCALING

Started Export to African Countries

2021

SCALING

We are exporting our batteries to the Middle East market, South-East Asian market and Africa

OVERSEAS

Official Presence in UAE & NIGERIA

2023

Company Milestones

For 15 years, Techkraft Industries has been taking baby steps towards entirely fabricated batteries. The sale of batteries started off slowly and gradually in the Indian Sub-Continent, that lead Techkraft to manufacture Solar Tubular Batteries, VRLA AGM Batteries, 2 Wheeler Batteries, Electric Vehicle Batteries and many more.



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