



## SOLAR TUBULAR BATTERY



## LEAD ACID BATTERIES 100Ah-12V

### SPECIFICATIONS

Battery Type	:	TT100
Rated Capacity at 20 hour Rate	:	100Ah
Battery Nominal Voltage	:	12V
Dimensions		
Length	:	503±3mm
Width	:	189±2mm
Height up to Terminal	:	354±3mm
Fully Charged Battery		
Electrolyte Specific Gravity at 27°C	:	1.250±0.010
Battery Weight (with electrolyte)	:	50Kg.

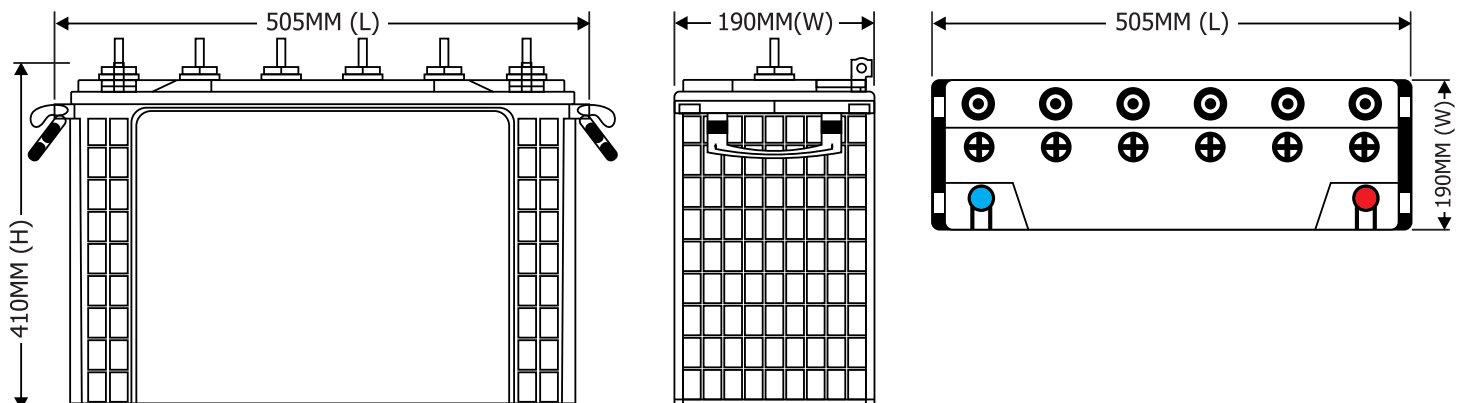
### ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	100Ah
	10 Hour Rate to 10.80V	88Ah
	5 Hour Rate to 10.80V	73Ah
	3 Hour Rate to 10.80V	52Ah
	1 Hour Rate to 10.50V	31Ah
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour-Efficiency		> 92.0%
Percentage (%) of Watt-hour-Efficiency		> 78.0%

### BATTERY CHARGING

Constant Voltage Charging (CV)	Maximum Charging current	20.0A
	Cyclic use	14.40±0.05V
	Float use	13.80±0.05V
Constant Current Charge (CC)	Maximum Charging current	10.0A

### BATTERY DIMENSIONS





## LEAD ACID BATTERIES 150Ah-12V

### SPECIFICATIONS

Battery Type	:	TT150
Rated Capacity at 20 hour Rate	:	150Ah
Battery Nominal Voltage	:	12V
Dimensions		
Length	:	503±3mm
Width	:	189±2mm
Height up to Terminal	:	354±3mm
Fully Charged Battery		
Electrolyte Specific Gravity at 27°C	:	1.250±0.010
Battery Weight (with electrolyte)	:	55Kg.

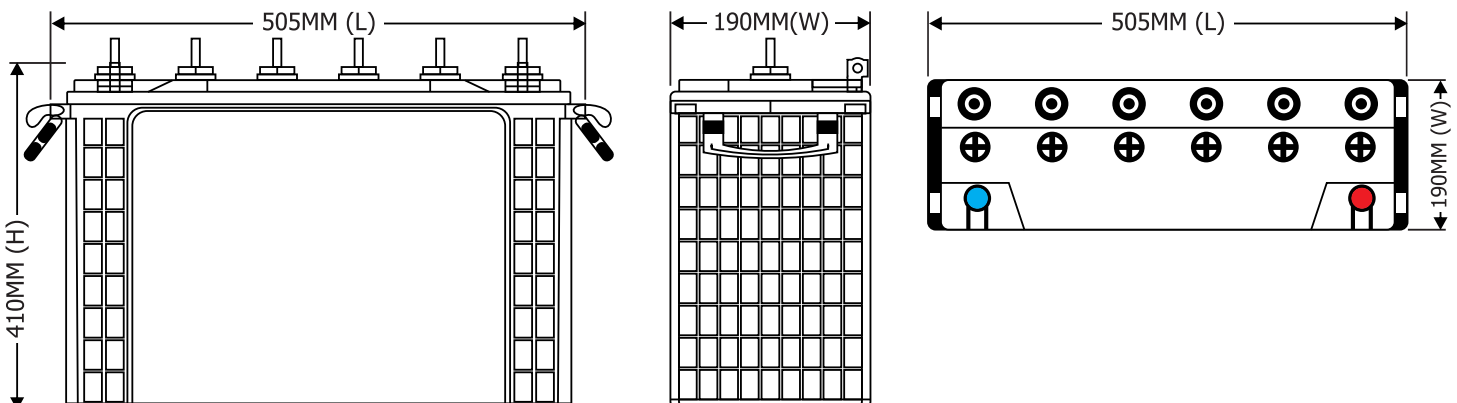
### ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	150Ah
	10 Hour Rate to 10.80V	132Ah
	5 Hour Rate to 10.80V	109Ah
	3 Hour Rate to 10.80V	78Ah
	1 Hour Rate to 10.50V	47Ah
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour-Efficiency		> 92.0%
Percentage (%) of Watt-hour-Efficiency		> 78.0%

### BATTERY CHARGING

Constant Voltage Charging (CV)	Maximum Charging current	30.0A
	Cyclic use	14.40±0.05V
	Float use	13.80±0.05V
Constant Current Charge (CC)	Maximum Charging current	15.0A

### BATTERY DIMENSIONS





## LEAD ACID BATTERIES 180Ah-12V

### SPECIFICATIONS

Battery Type	:	TT180
Rated Capacity at 20 hour Rate	:	180Ah
Battery Nominal Voltage	:	12V
Dimensions		
Length	:	503±3mm
Width	:	189±2mm
Height up to Terminal	:	354±3mm
Fully Charged Battery		
Electrolyte Specific Gravity at 27°C	:	1.250±0.010
Battery Weight (with electrolyte)	:	60Kg.

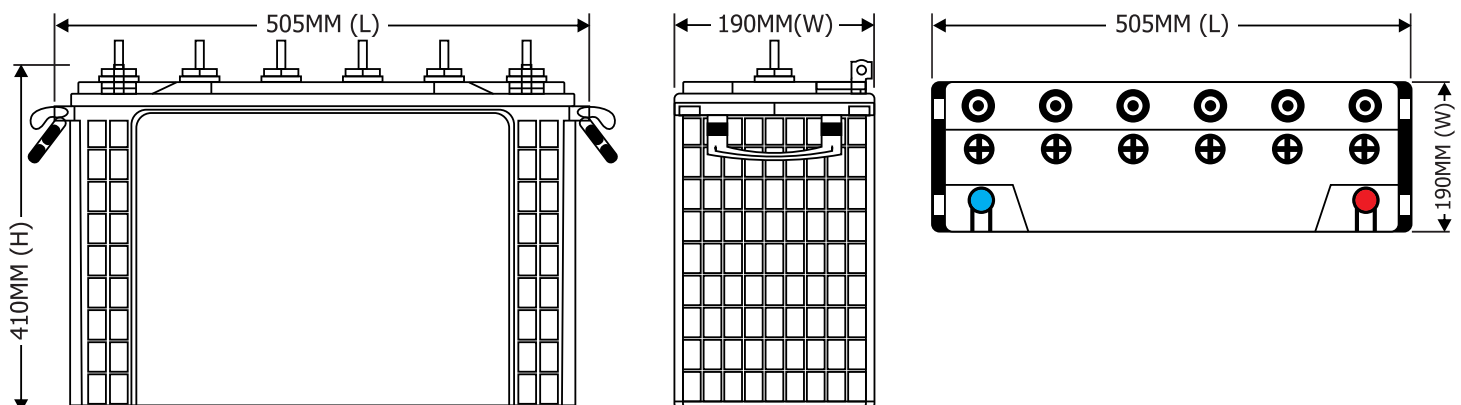
### ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	180Ah
	10 Hour Rate to 10.80V	158Ah
	5 Hour Rate to 10.80V	131Ah
	3 Hour Rate to 10.80V	94Ah
	1 Hour Rate to 10.50V	56Ah
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour-Efficiency		> 92.0%
Percentage (%) of Watt-hour-Efficiency		> 78.0%

### BATTERY CHARGING

Constant Voltage Charging (CV)	Maximum Charging current	38.0A
	Cyclic use	14.40±0.05V
	Float use	13.80±0.05V
Constant Current Charge (CC)	Maximum Charging current	19.0A

### BATTERY DIMENSIONS





## LEAD ACID BATTERIES 200Ah-12V

### SPECIFICATIONS

Battery Type	:	TT200
Rated Capacity at 20 hour Rate	:	200Ah
Battery Nominal Voltage	:	12V
Dimensions		
Length	:	503±3mm
Width	:	189±2mm
Height up to Terminal	:	354±3mm
Fully Charged Battery		
Electrolyte Specific Gravity at 27°C	:	1.250±0.010
Battery Weight (with electrolyte)	:	63Kg.

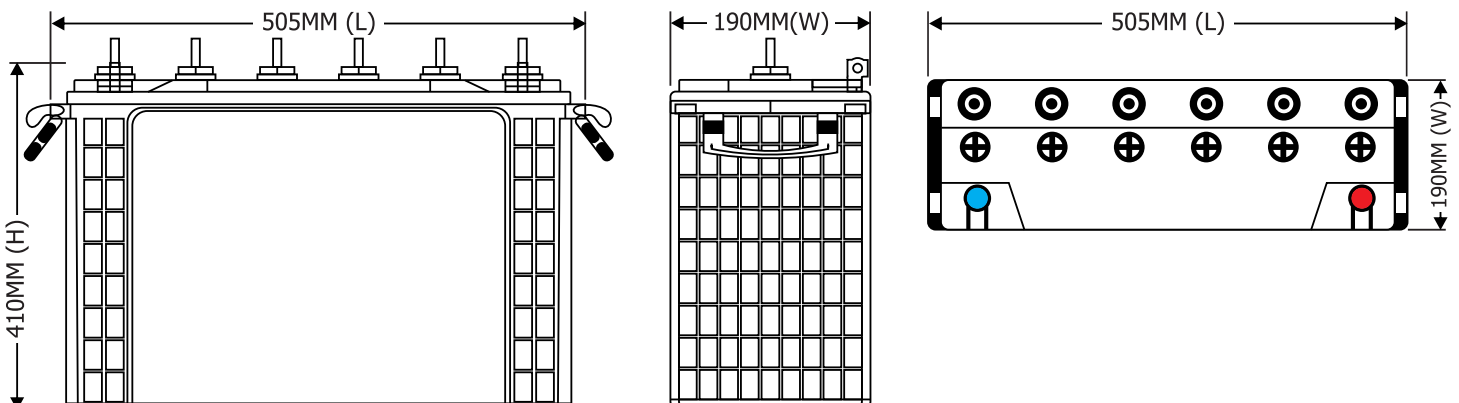
### ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	200Ah
	10 Hour Rate to 10.80V	176Ah
	5 Hour Rate to 10.80V	146Ah
	3 Hour Rate to 10.80V	105Ah
	1 Hour Rate to 10.50V	63Ah
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour-Efficiency		> 92.0%
Percentage (%) of Watt-hour-Efficiency		> 78.0%

### BATTERY CHARGING

Constant Voltage Charging (CV)	Maximum Charging current	38.0A
	Cyclic use	14.40±0.05V
	Float use	13.80±0.05V
Constant Current Charge (CC)	Maximum Charging current	19.0A

### BATTERY DIMENSIONS





## LEAD ACID BATTERIES 220Ah-12V

### SPECIFICATIONS

Battery Type	:	TT220
Rated Capacity at 20 hour Rate	:	220Ah
Battery Nominal Voltage	:	12V
Dimensions		
Length	:	503±3mm
Width	:	189±2mm
Height up to Terminal	:	354±3mm
Fully Charged Battery		
Electrolyte Specific Gravity at 27°C	:	1.250±0.010
Battery Weight (with electrolyte)	:	65Kg.

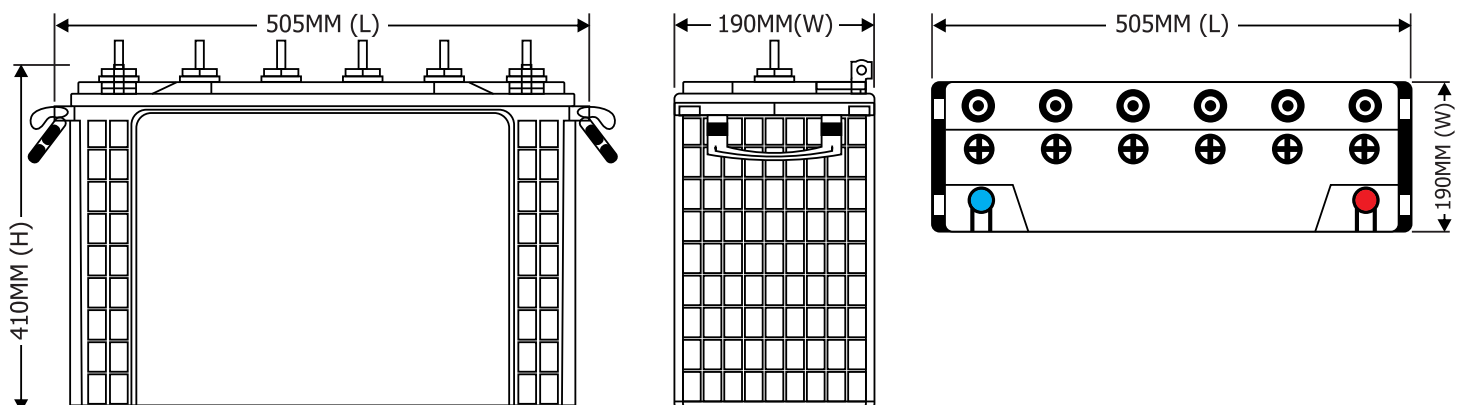
### ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	220Ah
	10 Hour Rate to 10.80V	193Ah
	5 Hour Rate to 10.80V	161Ah
	3 Hour Rate to 10.80V	115Ah
	1 Hour Rate to 10.50V	69Ah
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour-Efficiency		> 92.0%
Percentage (%) of Watt-hour-Efficiency		> 78.0%

### BATTERY CHARGING

Constant Voltage Charging (CV)	Maximum Charging current	42.0A
	Cyclic use	14.40±0.05V
	Float use	13.80±0.05V
Constant Current Charge (CC)	Maximum Charging current	21.0A

### BATTERY DIMENSIONS





## LEAD ACID BATTERIES 240Ah-12V

### SPECIFICATIONS

Battery Type	:	Tt240
Rated Capacity at 20 hour Rate	:	240Ah
Battery Nominal Voltage	:	12V
Dimensions		
Length	:	503±3mm
Width	:	189±2mm
Height up to Terminal	:	354±3mm
Fully Charged Battery		
Electrolyte Specific Gravity at 27°C	:	1.250±0.010
Battery Weight (with electrolyte)	:	67Kg.

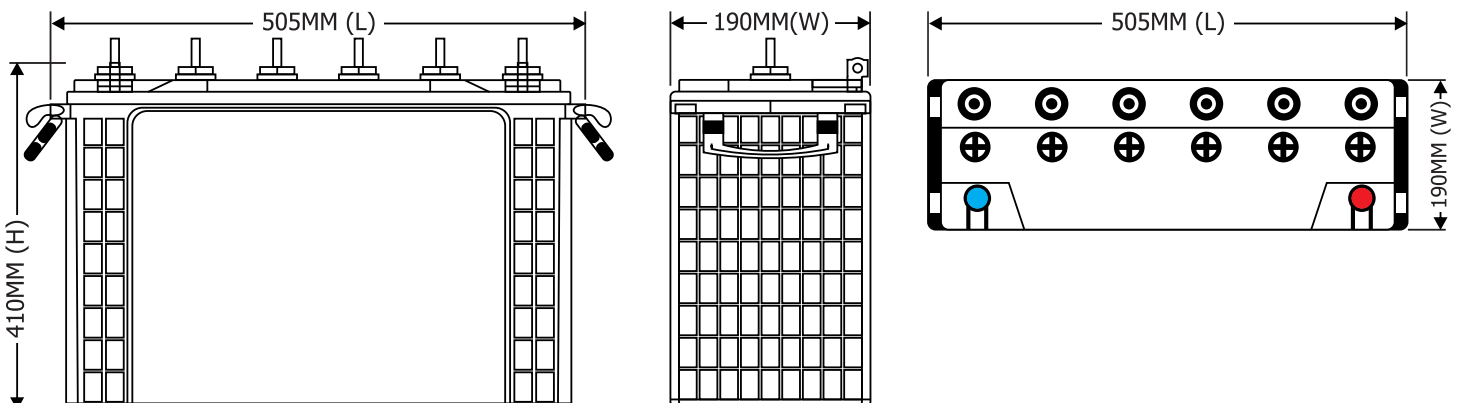
### ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	240Ah
	10 Hour Rate to 10.80V	211Ah
	5 Hour Rate to 10.80V	175Ah
	3 Hour Rate to 10.80V	126Ah
	1 Hour Rate to 10.50V	75Ah
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour-Efficiency		> 92.0%
Percentage (%) of Watt-hour-Efficiency		> 78.0%

### BATTERY CHARGING

Constant Voltage Charging (CV)	Maximum Charging current	42.0A
	Cyclic use	14.40±0.05V
	Float use	13.80±0.05V
Constant Current Charge (CC)	Maximum Charging current	21.0A

### BATTERY DIMENSIONS





## LEAD ACID BATTERIES 260Ah-12V

### SPECIFICATIONS

Battery Type	:	Tt260
Rated Capacity at 20 hour Rate	:	260Ah
Battery Nominal Voltage	:	12V
Dimensions		
Length	:	503±3mm
Width	:	189±2mm
Height up to Terminal	:	354±3mm
Fully Charged Battery		
Electrolyte Specific Gravity at 27°C	:	1.250±0.010
Battery Weight (with electrolyte)	:	71Kg.

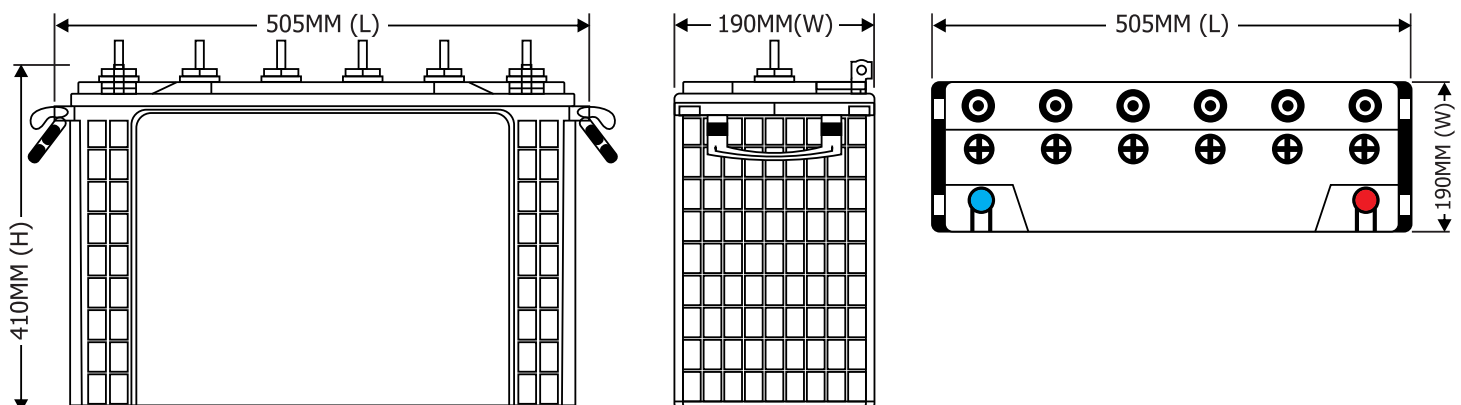
### ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	260Ah
	10 Hour Rate to 10.80V	228Ah
	5 Hour Rate to 10.80V	190Ah
	3 Hour Rate to 10.80V	136Ah
	1 Hour Rate to 10.50V	81Ah
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour-Efficiency		> 92.0%
Percentage (%) of Watt-hour-Efficiency		> 78.0%

### BATTERY CHARGING

Constant Voltage Charging (CV)	Maximum Charging current	42.0A
	Cyclic use	14.40±0.05V
	Float use	13.80±0.05V
Constant Current Charge (CC)	Maximum Charging current	21.0A

### BATTERY DIMENSIONS







## LEAD ACID BATTERIES 300Ah-12V

### SPECIFICATIONS

Battery Type	:	TT300
Rated Capacity at 20 hour Rate	:	300Ah
Battery Nominal Voltage	:	12V
Dimensions		
Length	:	503±3mm
Width	:	189±2mm
Height up to Terminal	:	354±3mm
Fully Charged Battery		
Electrolyte Specific Gravity at 27°C	:	1.250±0.010
Battery Weight (with electrolyte)	:	76Kg.

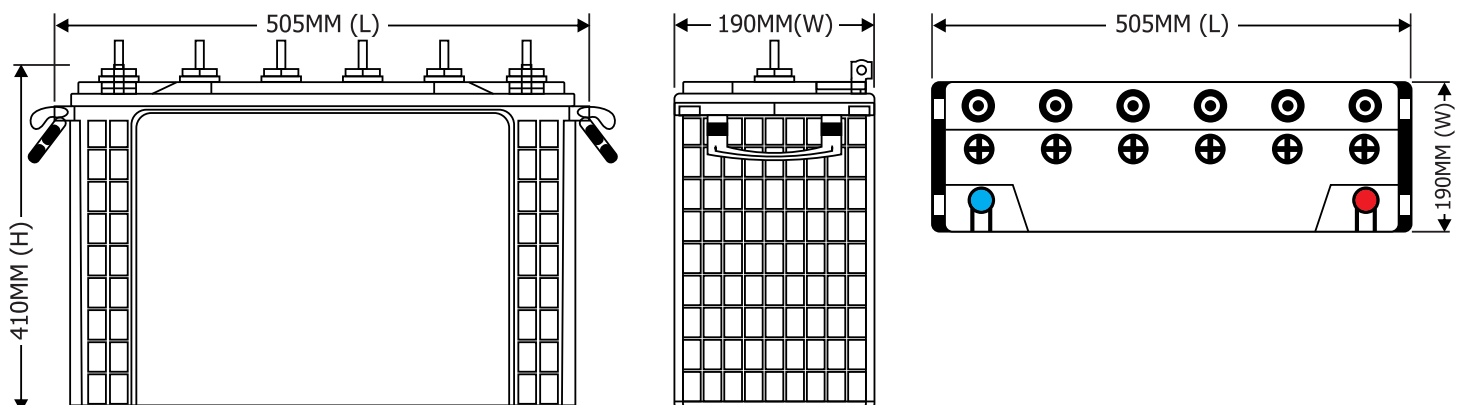
### ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	300Ah
	10 Hour Rate to 10.80V	264Ah
	5 Hour Rate to 10.80V	219Ah
	3 Hour Rate to 10.80V	157Ah
	1 Hour Rate to 10.50V	94Ah
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour-Efficiency		> 92.0%
Percentage (%) of Watt-hour-Efficiency		> 78.0%

### BATTERY CHARGING

Constant Voltage Charging (CV)	Maximum Charging current	42.0A
	Cyclic use	14.40±0.05V
	Float use	13.80±0.05V
Constant Current Charge (CC)	Maximum Charging current	21.0A

### BATTERY DIMENSIONS





## LEAD ACID BATTERIES 330Ah-12V

### SPECIFICATIONS

Battery Type	:	TT330
Rated Capacity at 20 hour Rate	:	330Ah
Battery Nominal Voltage	:	12V
Dimensions		
Length	:	503±3mm
Width	:	189±2mm
Height up to Terminal	:	354±3mm
Fully Charged Battery		
Electrolyte Specific Gravity at 27°C	:	1.250±0.010
Battery Weight (with electrolyte)	:	81Kg.

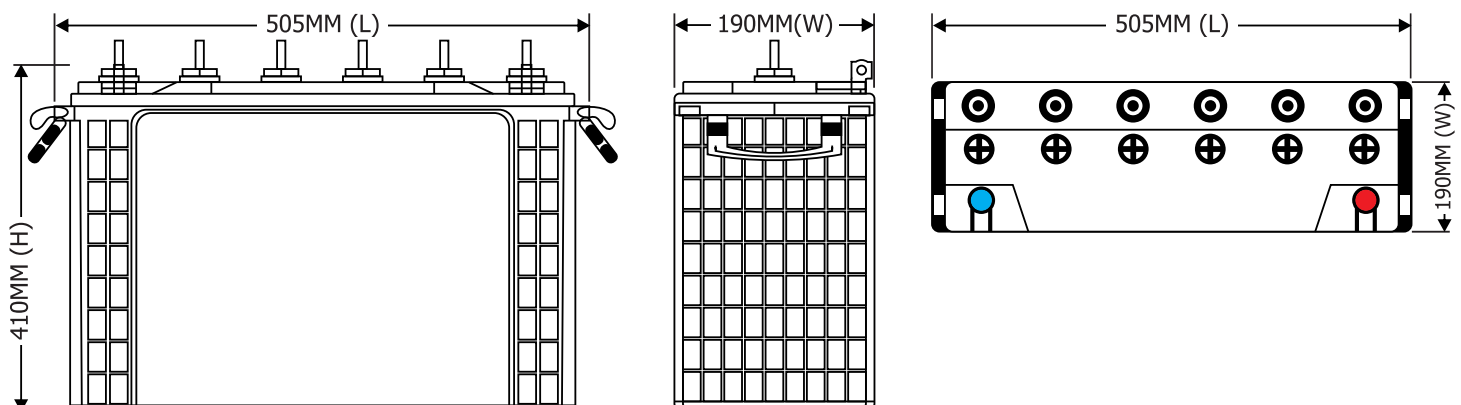
### ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	330Ah
	10 Hour Rate to 10.80V	290Ah
	5 Hour Rate to 10.80V	241Ah
	3 Hour Rate to 10.80V	173Ah
	1 Hour Rate to 10.50V	104Ah
Loss of capacity on storage per month at 27°C		< 5.0%
Percentage (%) of Ampere-hour-Efficiency		> 92.0%
Percentage (%) of Watt-hour-Efficiency		> 78.0%

### BATTERY CHARGING

Constant Voltage Charging (CV)	Maximum Charging current	42.0A
	Cyclic use	14.40±0.05V
	Float use	13.80±0.05V
Constant Current Charge (CC)	Maximum Charging current	21.0A

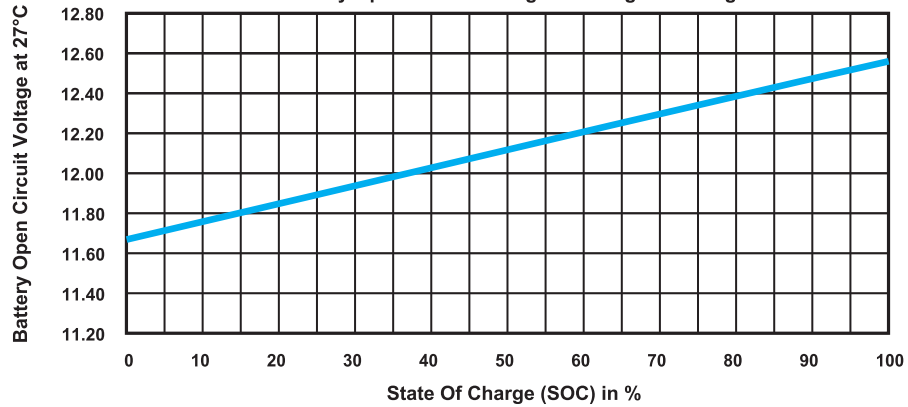
### BATTERY DIMENSIONS



BATTERY CHARACTERISTICS

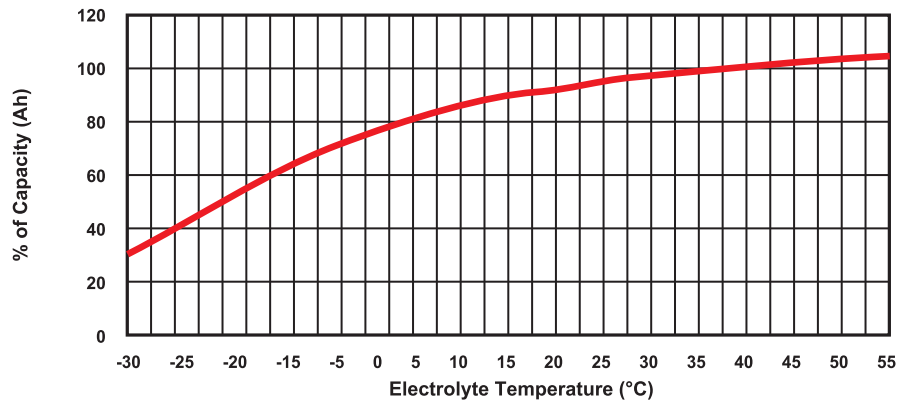
**BATTERY STATE OF CHARGE (SOC)**

Battery Open Circuit Voltage V/s. Stage Of Charge



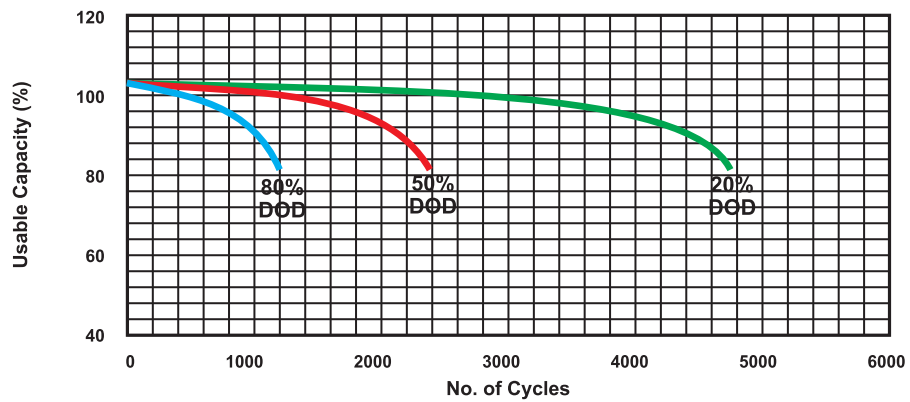
**BATTERY CAPACITY V/S. TEMPERATURE**

Capacity V/s. Temperature



**BATTERY LIFE CYCLES CHARACTERISTICS AT 27°C**

Battery Capacity Vs No. of Cycles at Various DOD at 27°C



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