



extron
BATTERY

**SOLAR
TUBULAR**



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.

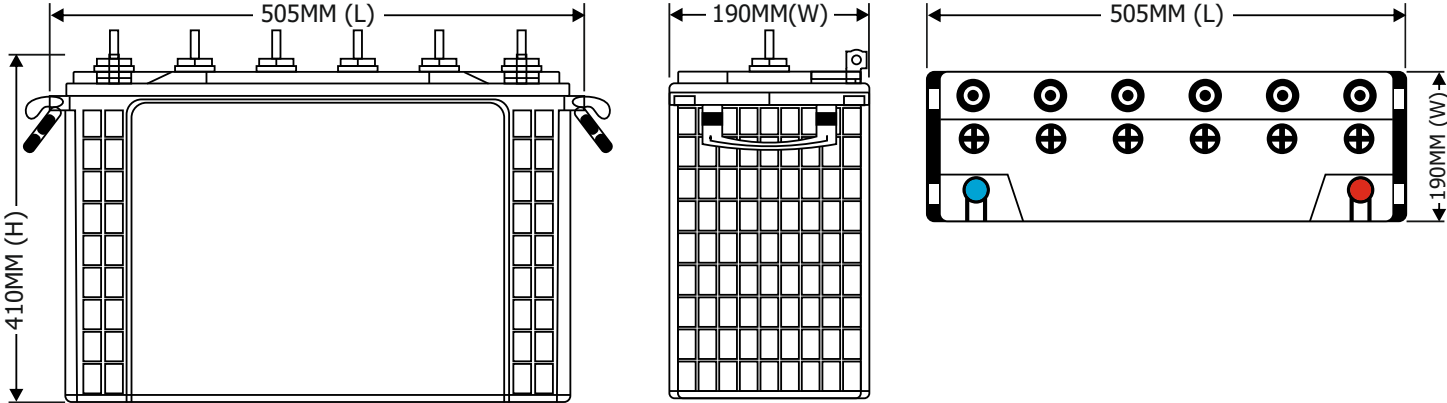
ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	100.0Ah
	10 Hour Rate to 10.80V	88.0Ah
	5 Hour Rate to 10.80V	73.3Ah
	3 Hour Rate to 10.80V	52.5Ah
	1 Hour Rate to 10.50V	31.5Ah
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.

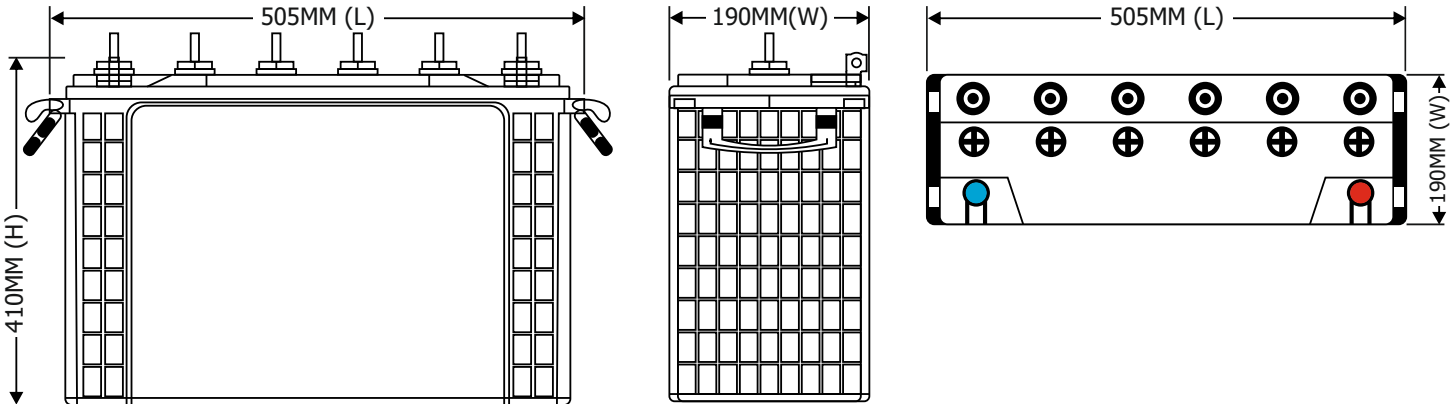
ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	150.0Ah
	10 Hour Rate to 10.80V	132.0Ah
	5 Hour Rate to 10.80V	109.9Ah
	3 Hour Rate to 10.80V	78.8Ah
	1 Hour Rate to 10.50V	47.3Ah
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.

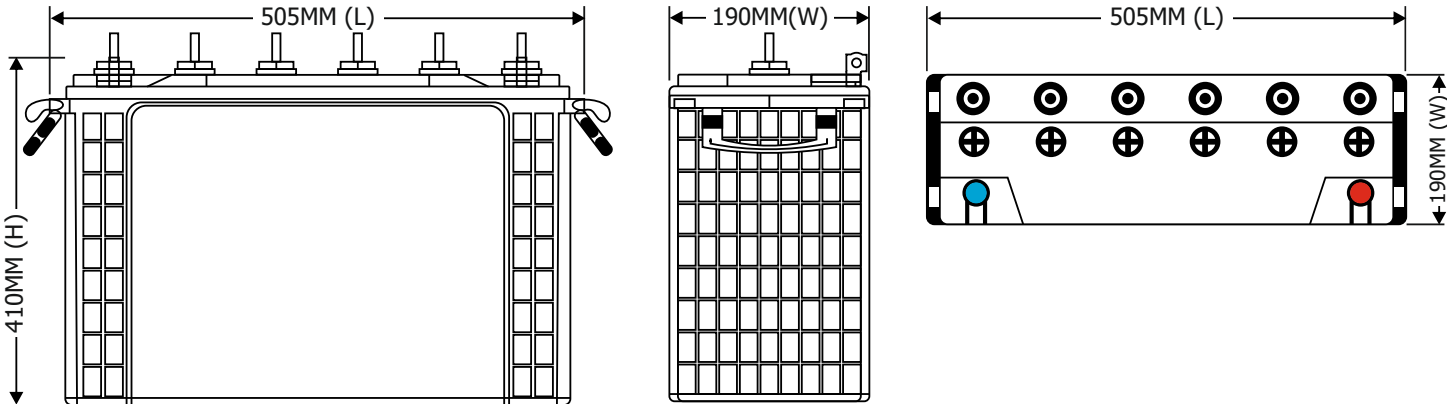
ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	180.0Ah
	10 Hour Rate to 10.80V	158.4Ah
	5 Hour Rate to 10.80V	131.9Ah
	3 Hour Rate to 10.80V	94.6Ah
	1 Hour Rate to 10.50V	56.7Ah
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.

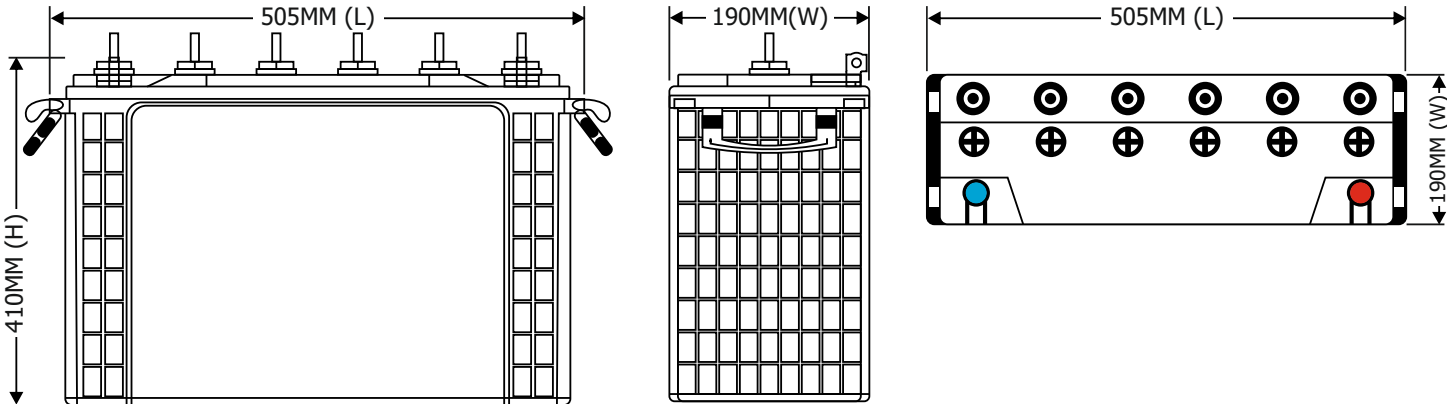
ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	200.0Ah
	10 Hour Rate to 10.80V	176.0Ah
	5 Hour Rate to 10.80V	146.6Ah
	3 Hour Rate to 10.80V	105.1Ah
	1 Hour Rate to 10.50V	63.0Ah
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.

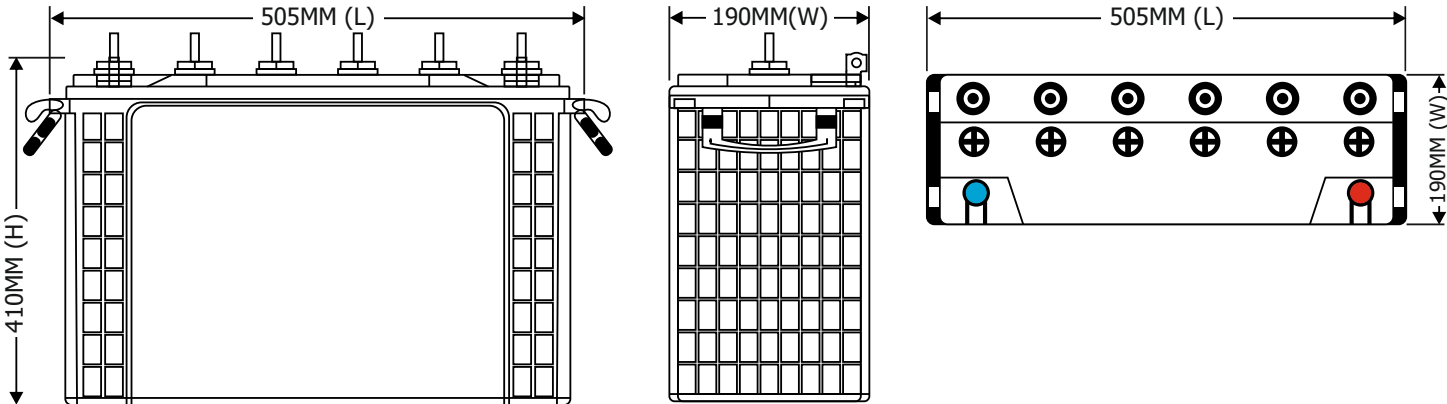
ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	220.0Ah
	10 Hour Rate to 10.80V	193.6Ah
	5 Hour Rate to 10.80V	161.2Ah
	3 Hour Rate to 10.80V	115.6Ah
	1 Hour Rate to 10.50V	69.3Ah
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.

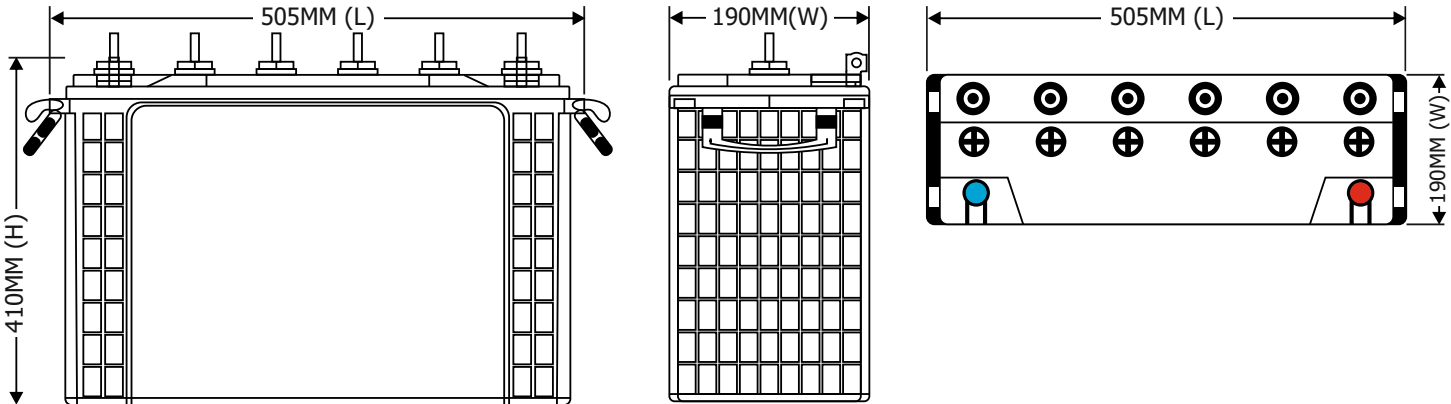
ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	240.0Ah
	10 Hour Rate to 10.80V	211.2Ah
	5 Hour Rate to 10.80V	175.9Ah
	3 Hour Rate to 10.80V	126.1Ah
	1 Hour Rate to 10.50V	75.6Ah
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.

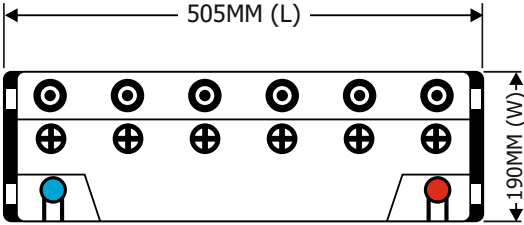
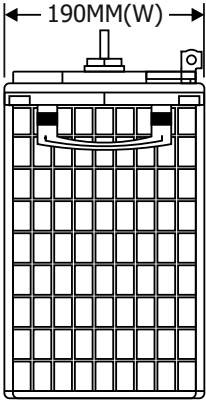
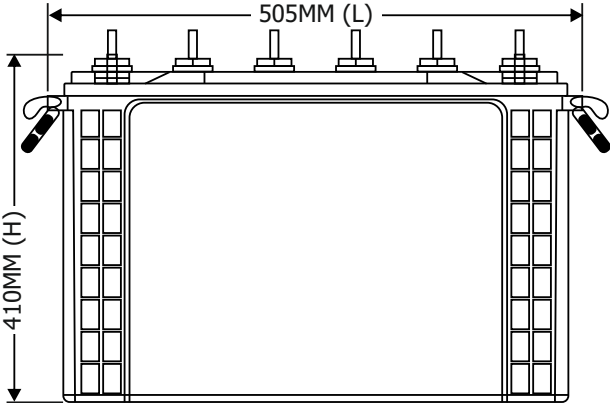
ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	260.0Ah
	10 Hour Rate to 10.80V	228.8Ah
	5 Hour Rate to 10.80V	190.5Ah
	3 Hour Rate to 10.80V	136.6Ah
	1 Hour Rate to 10.50V	81.9Ah
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.

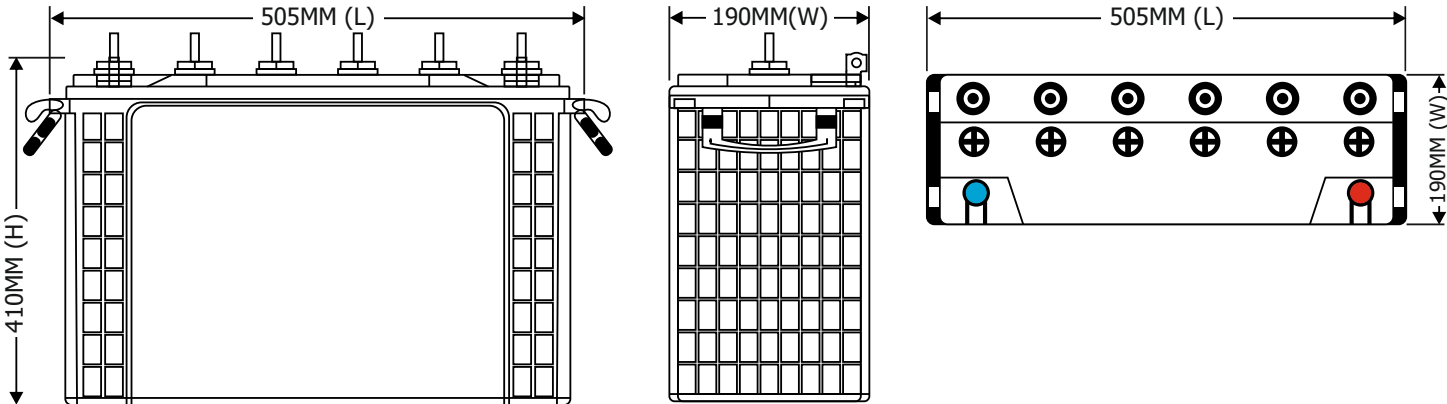
ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	300.0Ah
	10 Hour Rate to 10.80V	264.0Ah
	5 Hour Rate to 10.80V	219.9Ah
	3 Hour Rate to 10.80V	157.6Ah
	1 Hour Rate to 10.50V	94.6Ah
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.

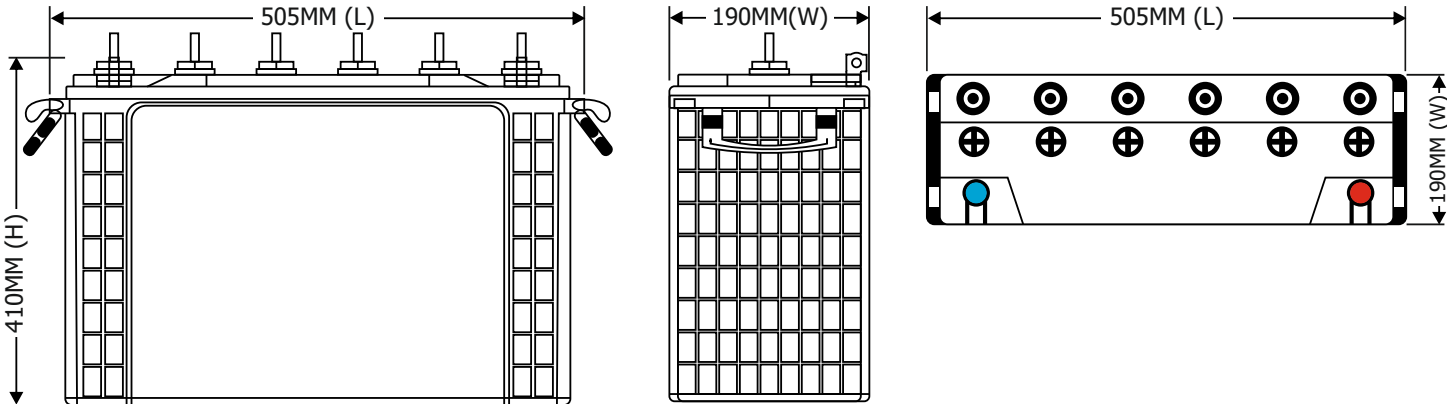
ELECTRICAL PERFORMANCE

Capacity at 27°C	20 Hour Rate to 10.80V	330.0Ah
	10 Hour Rate to 10.80V	290.4Ah
	5 Hour Rate to 10.80V	241.9Ah
	3 Hour Rate to 10.80V	173.4Ah
	1 Hour Rate to 10.50V	104.0Ah
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

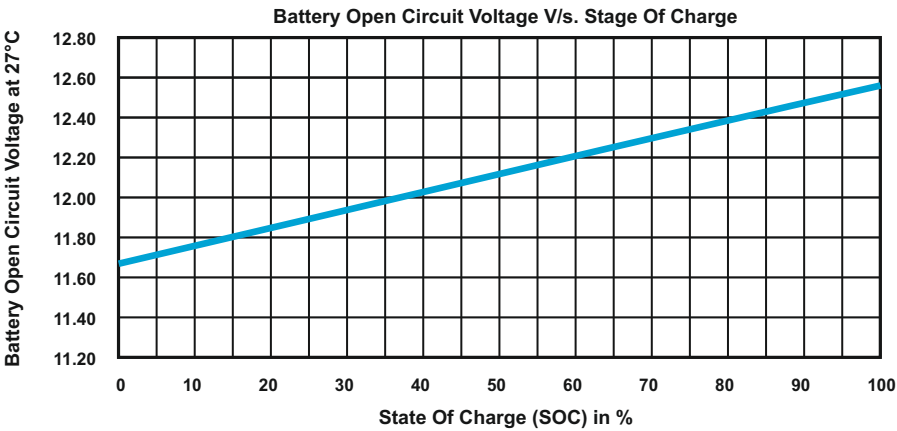
BATTERY DIMENSIONS



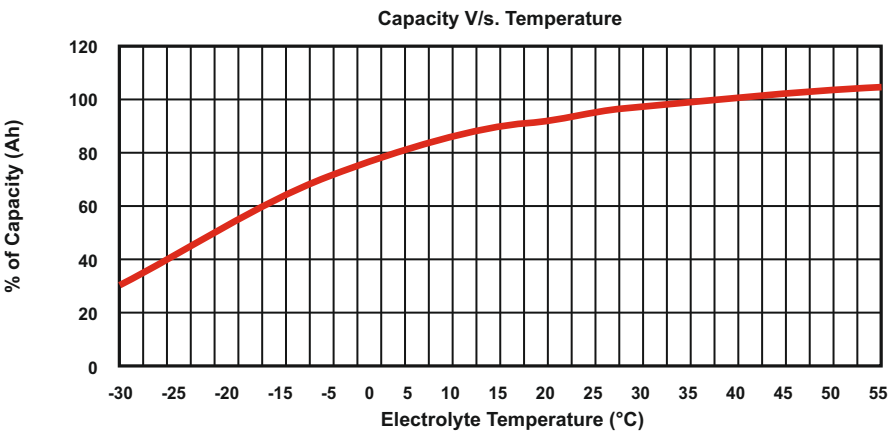


BATTERY CHARACTERISTICS

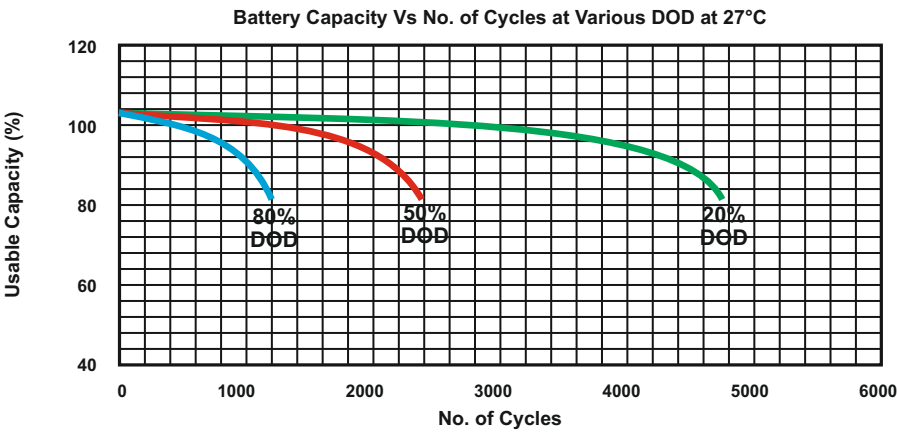
BATTERY STATE OF CHARGE (SOC)



BATTERY CAPACITY V/S. TEMPERATURE



BATTERY LIFE CYCLES CHARACTERISTICS AT 27°C



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