



# DC 110

**DEEP CYCLE BATTERY**  
12V | 110Ah | 100h

## Electrical Specifications

Nominal voltage	12V
Rated capacity	110Ah at C <sub>100</sub>
Separator	PE
Cycle life in relation to depth of discharge	700 cycles at 30 % DoD
	400 cycles at 50 % DoD
	280 cycles at 80 % DoD
	180 cycles at 100 % DoD

## Mechanical Specifications

Measurements (L x W x H)	353 x 175 x 190mm
Approx. weight	23.8kg
Terminal type	Round
Case Material	PP
Lid Material	PP

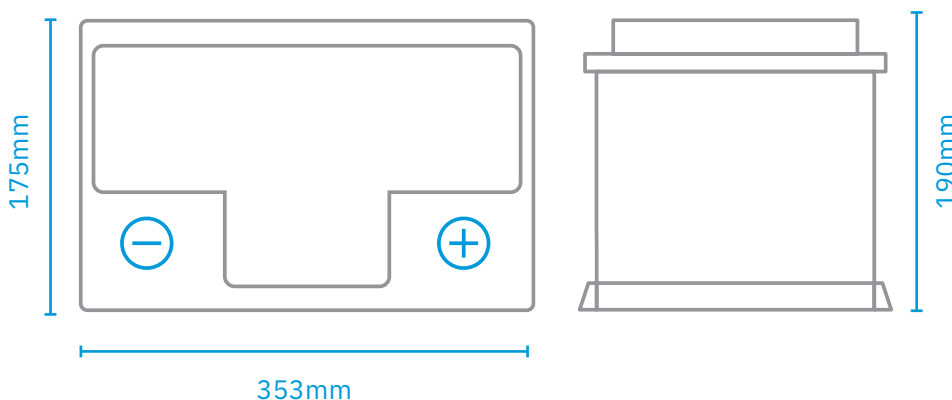
## Charging and Discharging

Capacity C <sub>100</sub>	110Ah
Capacity C <sub>20</sub>	100Ah
Capacity C <sub>10</sub>	88Ah
Capacity C <sub>5</sub>	75Ah
Max. charge current	19A
Max. discharge current	971A (5 seconds)

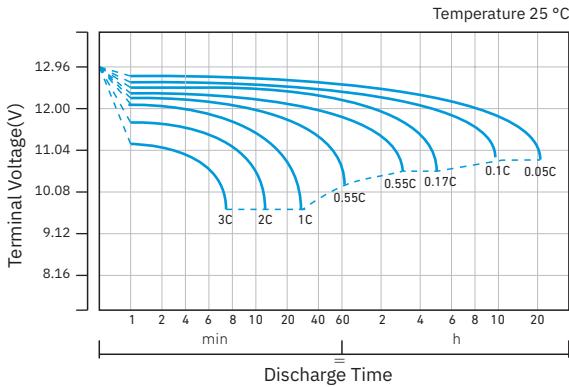
## Temperature Specifications

Discharge Temperature	-15 to 50°C
Charge Temperature	0 to 40°C
Storage Temperature	-15 to 50°C
Normal Operating Temperature	25 ± 5°C

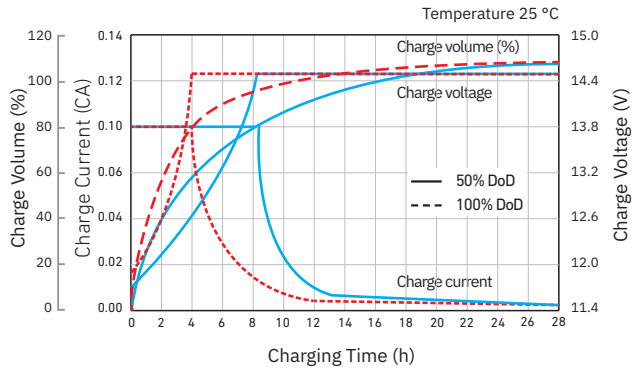
## Measurements



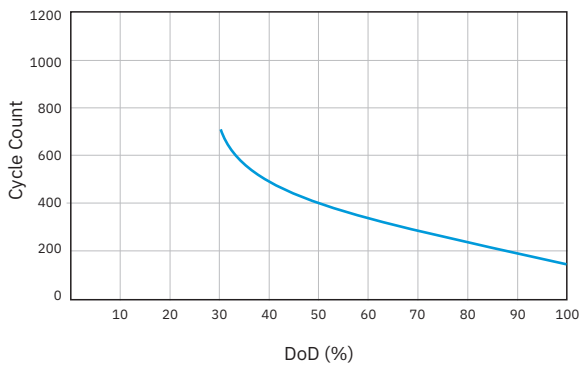
Discharge Characteristics Curve



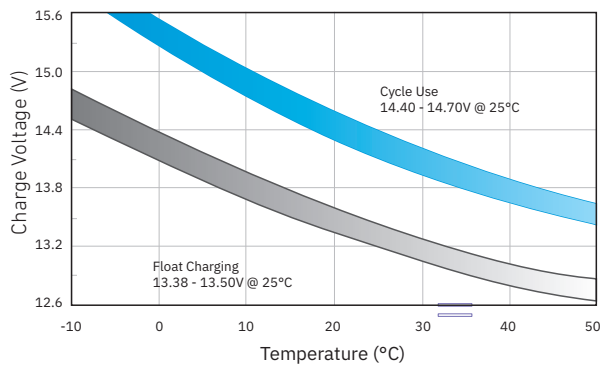
Charge Characteristics Curve For Cycle Use (IU)



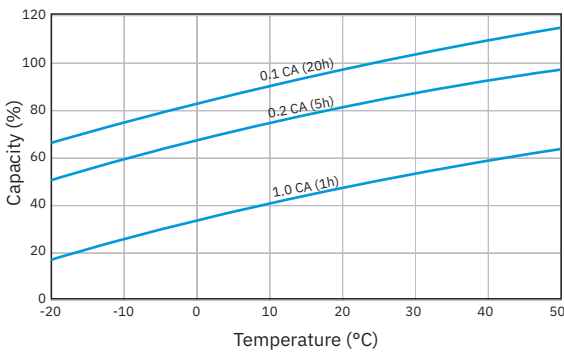
Relationship of Cycle Life and DoD



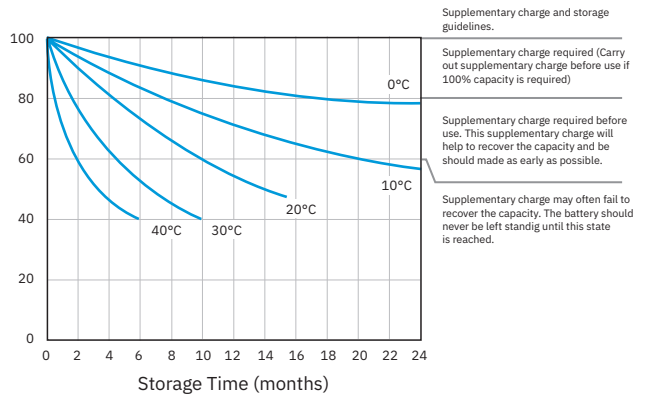
Relationship of Charge Voltage and Temperature



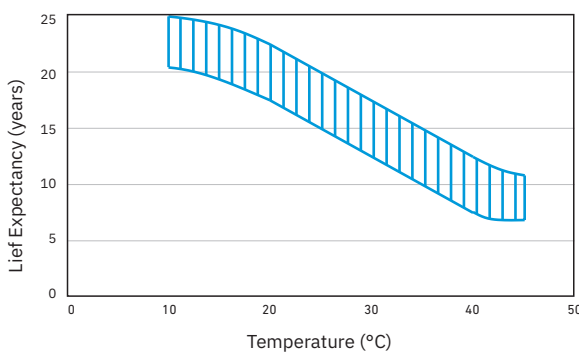
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long-Term Life



Relationship of OCV and State of Charge

