

# AccuForce 12V - 150Ah | VRLA Battery



## Applications

- Uninterruptible Power Supplies (UPS)
- Electric Power Systems (EPS)
- Emergency backup power supplies
- Electronic apparatus and equipment
- Communication power supplies
- DC power supplies
- Auto control system



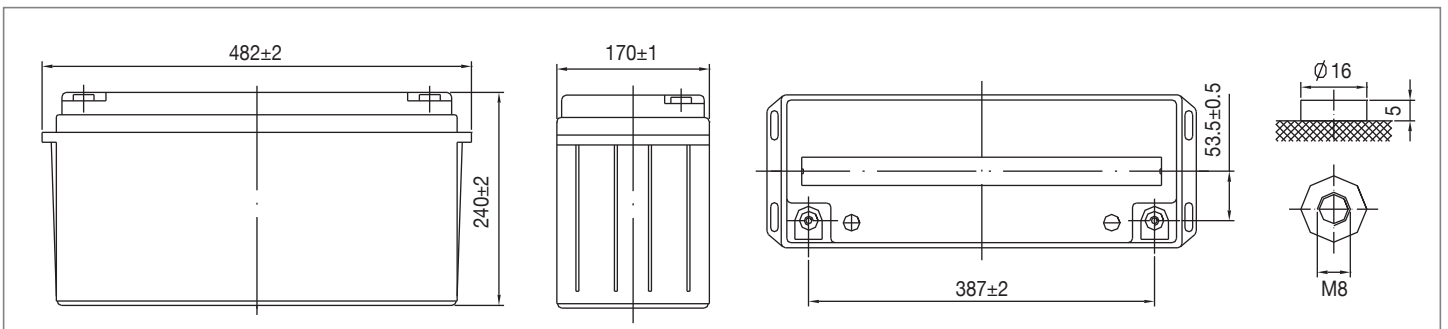
## Specifications

Nominal Voltage	12 V	
Number of cells	6	
Design Life	8 years	
Dimensions	Length	482 mm
	Width	170 mm
	Height	240 mm
	Total Height	240 mm
Approx. Weight	42.5 kg	
	10 hours rate (15.3 A, 10.8 V)	153.0 Ah
	5 hours rate (26.7 A, 10.5 V)	133.5 Ah
Nominal Capacity (25°C)	1 hour rate (98.6 A, 9.6 V)	98.6 Ah
	Max. Discharge Current (25°C)	1000 A (5s)
	Internal Resistance	4 mOhms
Fully Charged battery (25°C)		
Self-Discharge	3% of capacity declined per month at 20°C (average)	
	Discharge	: -20~60°C
	Charge	: -10~60°C
Operating Temperature Range	Storage : -20~60°C	
	Short Circuit Current	2800 A
Charge Methods:	Cycle use	2.30-2.35 Vpc
	Maximum charging current	45 A
	Temperature compensation	-30 mV/°C
	Standby use	2.23-2.27 Vpc
	Temperature compensation	-20 mV/°C
	Constant Voltage Charge (25°C)	

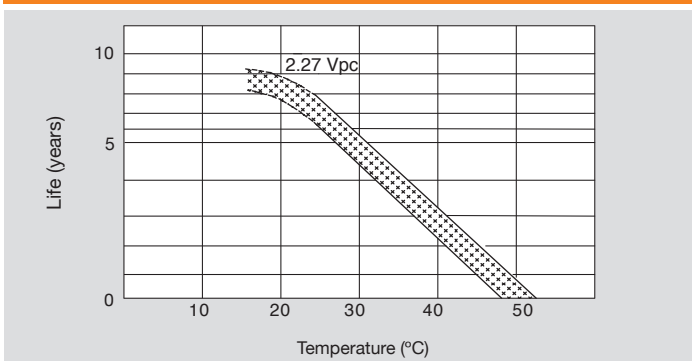
## Battery Construction

Component	Positive Plate	Negative Plate	Container	Cover	Safety Valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

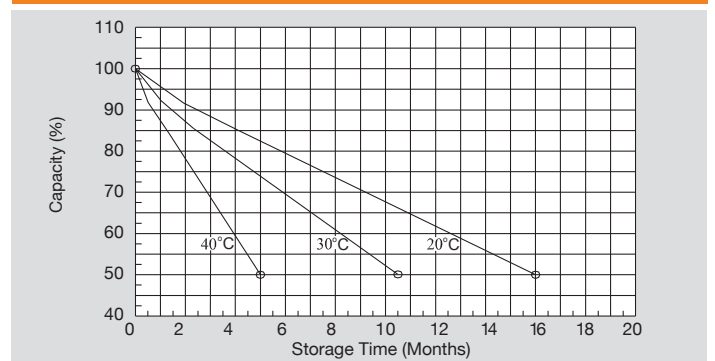
## Dimensions



## Temperature Effects on Float Life

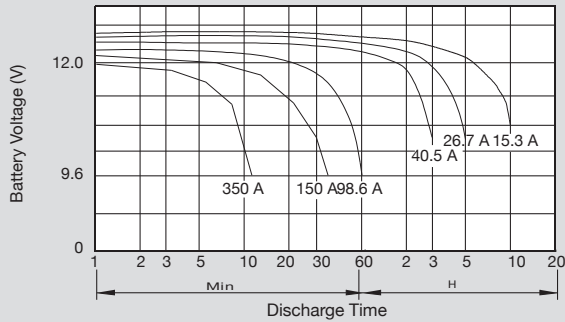


## Self Discharge Characteristics

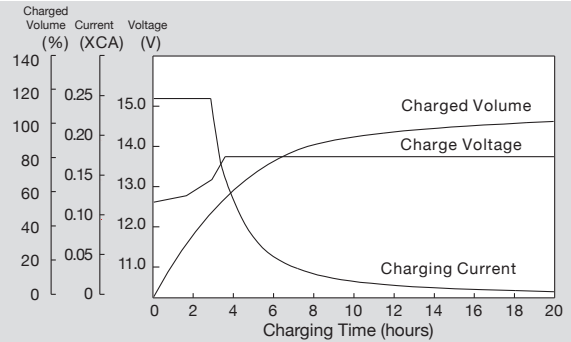


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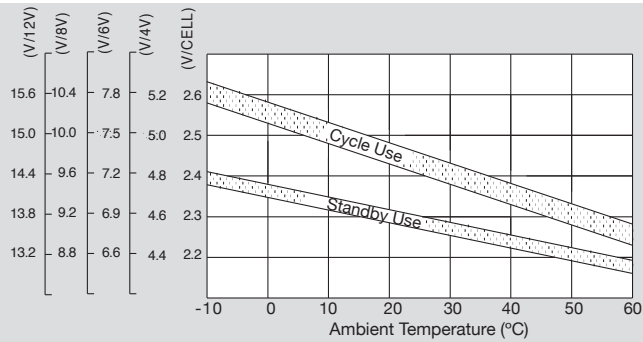
## Discharge Characteristics (25°C)



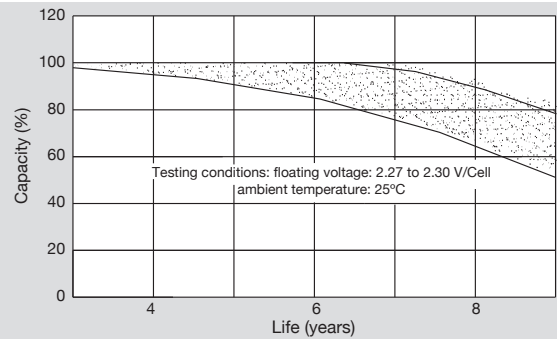
## Constant Voltage Charging Characteristic (0.25 CA, 25°C)



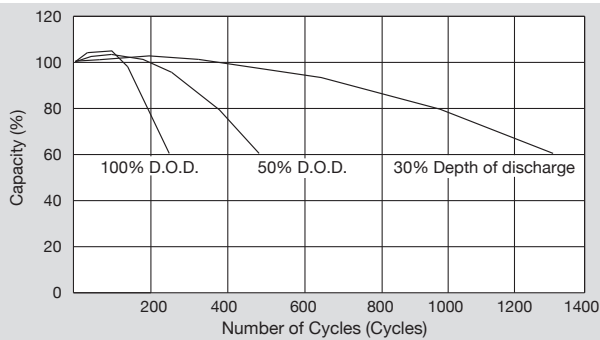
## Relationship Between Charging Voltage and Temperature



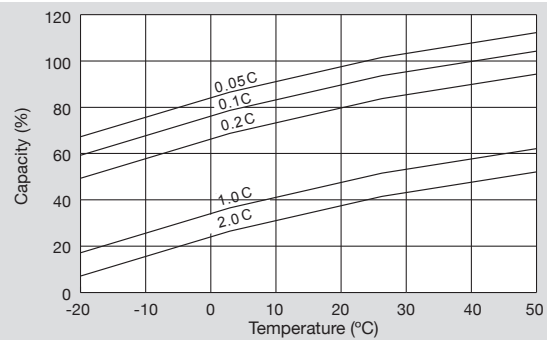
## Life Characteristics of Standby Use



## Cycle Service Life in Relation to Depth of Discharge



## Temperature Effects on Capacity



## Constant Current Discharge (Amperes) at 25°C

End Voltage (Volts/Cell)	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1.60 V	397.5	300.0	172.5	124.1	98.6	44.7	29.1	16.1
1.65 V	366.2	280.5	163.4	119.1	95.2	43.4	28.1	15.9
1.70 V	339.3	263.8	154.9	116.2	92.1	41.6	27.4	15.6
1.75 V	311.3	247.1	148.8	111.7	89.3	40.5	26.7	15.4
1.80 V	283.3	226.2	143.3	107.7	85.3	39.8	26.0	15.3

## Constant Power Discharge (Watts/Cell) at 25°C

End Voltage (Volts/Cell)	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1.60 V	675.7	524.9	314.5	230.3	185.3	85.4	56.1	31.6
1.65 V	636.9	499.1	300.0	222.1	179.9	83.3	54.4	31.3
1.70 V	595.6	473.0	286.7	218.7	175.3	80.2	53.1	30.7
1.75 V	559.1	449.3	277.0	211.1	170.5	78.2	51.9	30.4
1.80 V	517.1	416.4	269.0	205.3	163.7	77.1	50.8	30.2

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.