

AccuForce 12V - 200Ah | 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



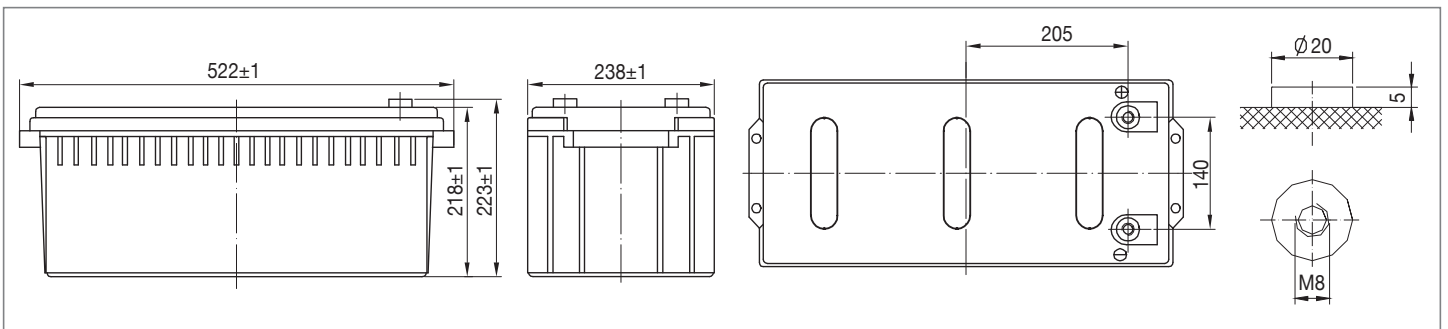
Specifications

Nominal Voltage	12 V	
Number of cells	6	
Design Life	10 years	
Dimensions	Length	522 mm
	Width	238 mm
	Height	218 mm
	Total Height	223 mm
Approx. Weight	59.1 kg	
	Nominal Capacity (25°C)	200.0 Ah
Nominal Capacity (25°C)	10 hours rate (20.0 A, 10.8 V)	200.0 Ah
	5 hours rate (34.7 A, 10.5 V)	173.5 Ah
	1 hour rate (129.0 A, 9.6 V)	129.0 Ah
Max. Discharge Current (25°C)	1000 A (5s)	
Internal Resistance	3.5 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	3300 A
Charge Methods:	Cycle use	2.30-2.35 Vpc
	Maximum charging current	60 A
	Temperature compensation	-30 mV/°C
	Constant Voltage Charge (25°C)	
Standby use	2.23-2.27 Vpc	
	Temperature compensation	-20 mV/°C

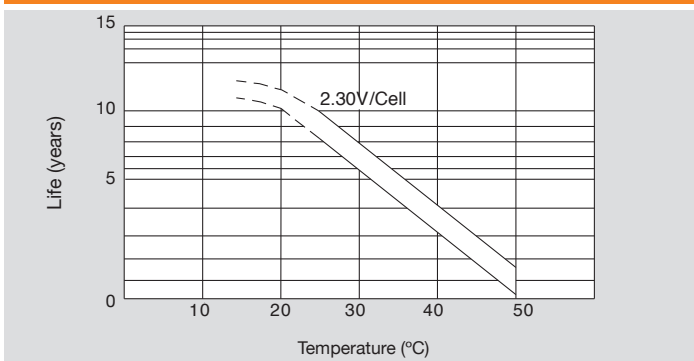
Battery Construction

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

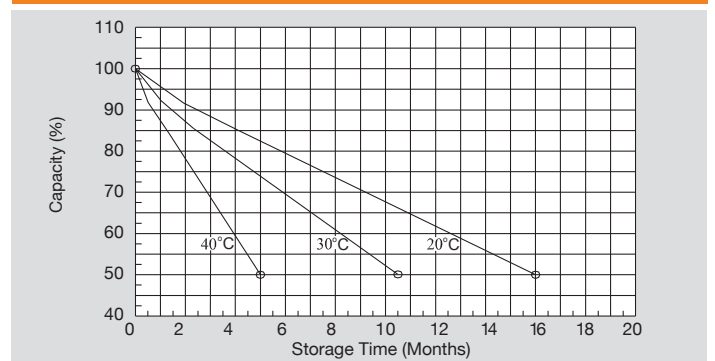
Dimensions



Temperature Effects on Float Life

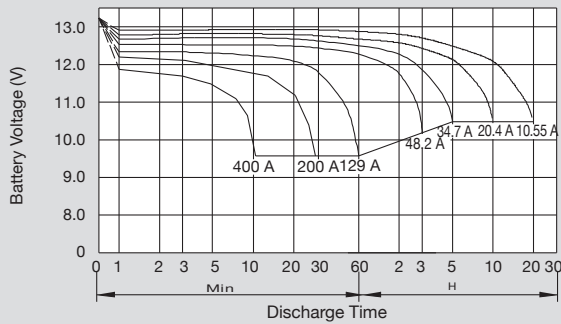


Self Discharge Characteristics

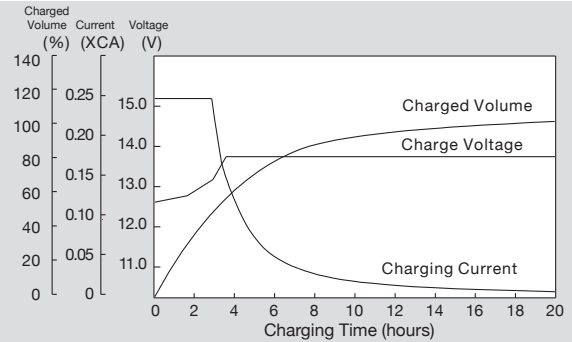


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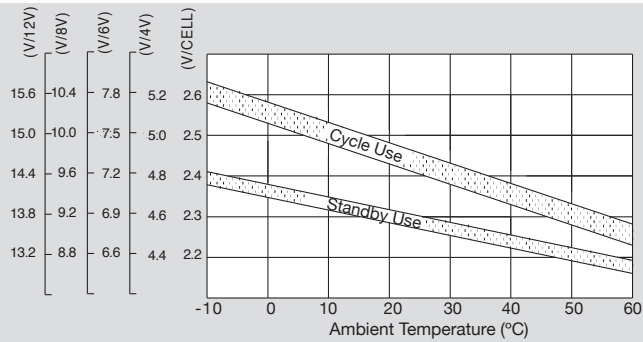
Discharge Characteristics (25°C)



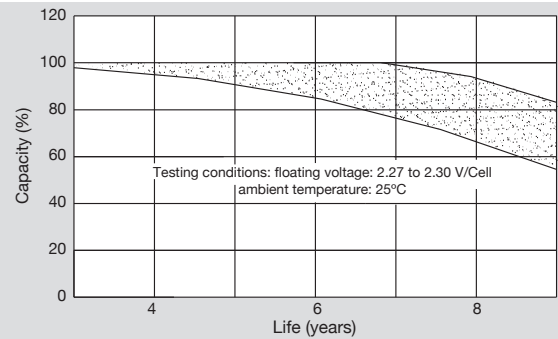
Constant Voltage Charging Characteristic (0.25 CA, 25°C)



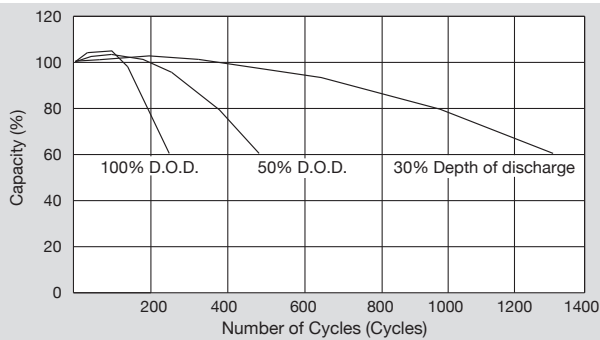
Relationship Between Charging Voltage and Temperature



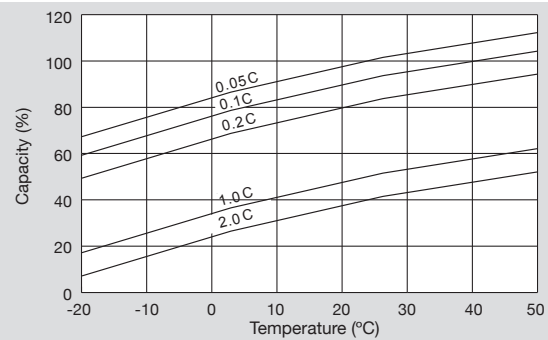
Life Characteristics of Standby Use



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity



Constant Current Discharge (Amperes) at 25°C

End Voltage (Volts/Cell)	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1.60 V	327	196	129	50.3	36.9	21.1	10.70
1.65 V	308	188	126	49.1	36.2	20.9	10.65
1.70 V	288	181	123	48.2	35.4	20.7	10.60
1.75 V	269	175	120	47.1	34.7	20.4	10.55
1.80 V	250	168	117	45.7	33.9	20.0	10.50

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

End Voltage (Volts/Cell)	15 min	30 min	45 min	1 h	2 h	3 h	5 h
1.60 V	566	374	268	248	137	97.4	70.3
1.65 V	547	360	262	243	134	96.1	69.7
1.70 V	530	347	257	238	131	94.8	69.1
1.75 V	512	332	252	233	128	93.4	68.6
1.80 V	482	319	247	228	124	92.4	68.1

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