

AccuForce 12V - 65Ah | VRLA Battery



Specifications

Nominal Voltage	12 V	
Number of cells	6	
Design Life	10 years	
Dimensions	Length	350 mm
	Width	167 mm
	Height	179 mm
	Total Height	179 mm
Approx. Weight	20.4 kg	
Nominal Capacity (25°C)	20 hours rate (3.4 A, 10.8 V)	68.0 Ah
	10 hours rate (6.5 A, 10.8 V)	65.0 Ah
	5 hours rate (11.0 A, 10.5 V)	55.0 Ah
	1 hour rate (45.1A, 9.6 V)	45.1 Ah
Max. Discharge Current (25°C)	650 A (5s)	
Internal Resistance	5.5 mOhms	
Fully Charged battery (25°C)		
Self-Discharge	3% of capacity declined per month at 20°C (average)	
Operating Temperature Range	Discharge	-20~60°C
	Charge	-10~60°C
	Storage	-20~60°C
Short Circuit Current	1700 A	
Charge Methods:	Cycle use	2.30-2.35 Vpc
	Maximum charging current	26 A
	Temperature compensation	-30 mV/°C
	Standby use	2.23-2.27 Vpc
Constant Voltage Charge (25°C)	Temperature compensation -20 mV/°C	

Applications

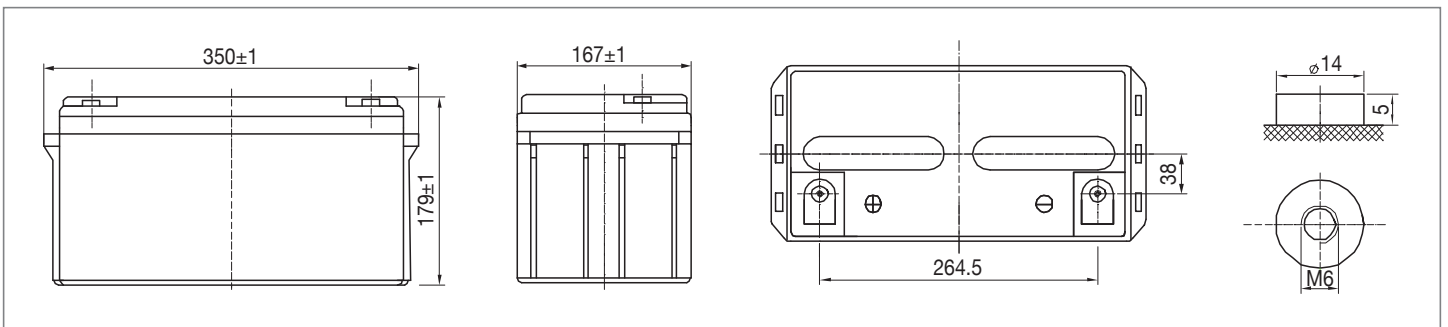
- Uninterruptible Power Supplies (UPS)
- Electric Power Systems (EPS)
- Emergency backup power supplies
- Electronic apparatus and equipment
- Communication power supplies
- DC power supplies
- Auto control system



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



Constant Current Discharge (Amperes) at 25°C

End Voltage (Volts/Cell)	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1.60 V	212	151	126	75.4	45.1	18.4	11.8	6.70	3.48
1.65 V	201	144	121	73.3	44.0	18.0	11.6	6.58	3.46
1.70 V	189	137	115	71.3	43.0	17.6	11.3	6.56	3.44
1.75 V	177	129	109	69.2	41.9	17.2	11.0	6.53	3.42
1.80 V	164	120	102	66.9	41.0	16.9	10.7	6.50	3.40

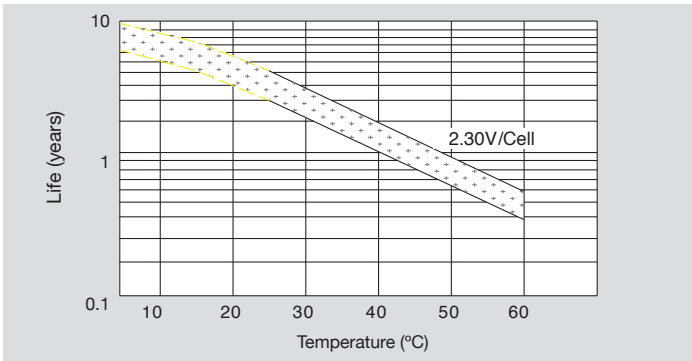
Constant Power Discharge (Watts/Cell) at 25°C

End Voltage (Volts/Cell)	5 min	10 min	15 min	30 min	45 min	1 h	2 h	3 h	5 h
1.60 V	378	275	207	129	99.1	81.8	47.5	33.8	22.5
1.65 V	356	261	203	128	97.6	80.0	46.6	33.2	22.3
1.70 V	335	246	200	127	95.7	78.3	45.6	32.5	22.0
1.75 V	314	231	196	124	93.6	76.5	44.5	31.8	21.7
1.80 V	302	215	187	122	91.3	75.7	43.3	31.1	21.4

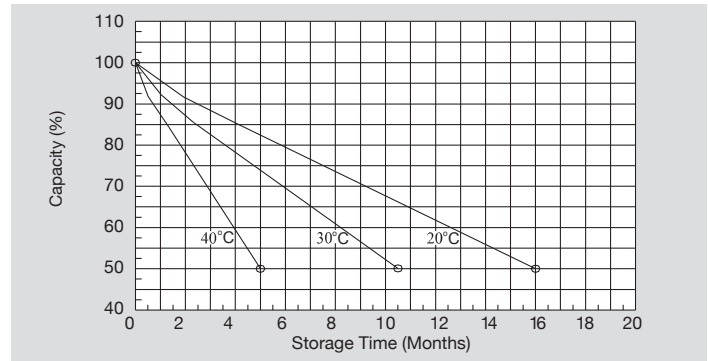
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

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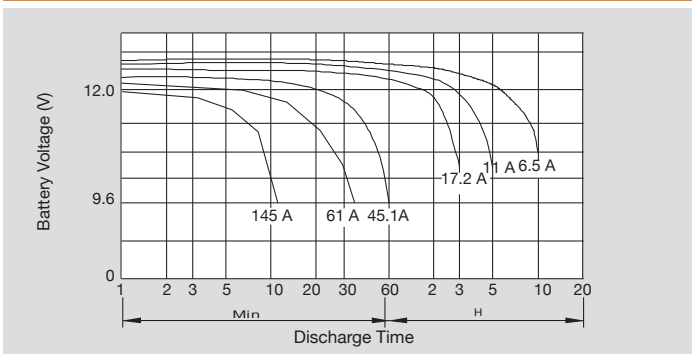
Temperature Effects on Float Life



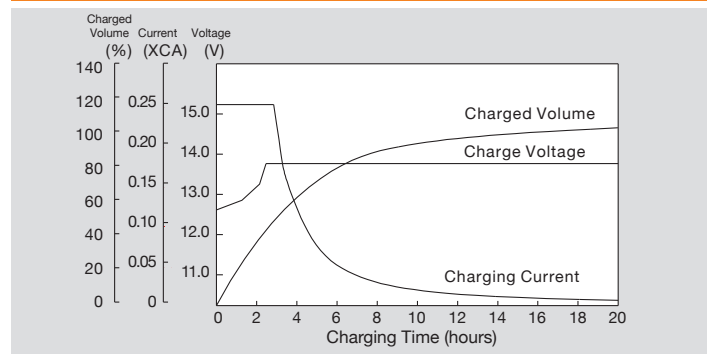
Self Discharge Characteristics



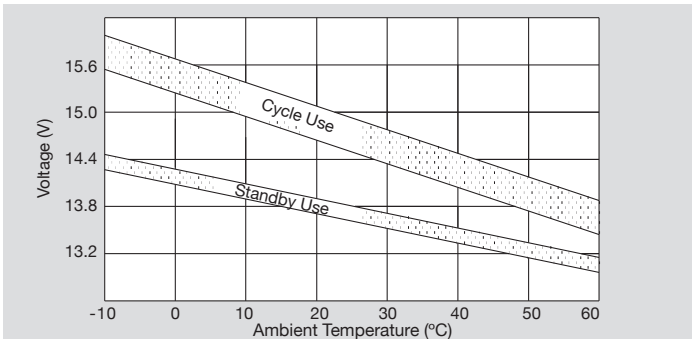
Discharge Characteristics (25°C)



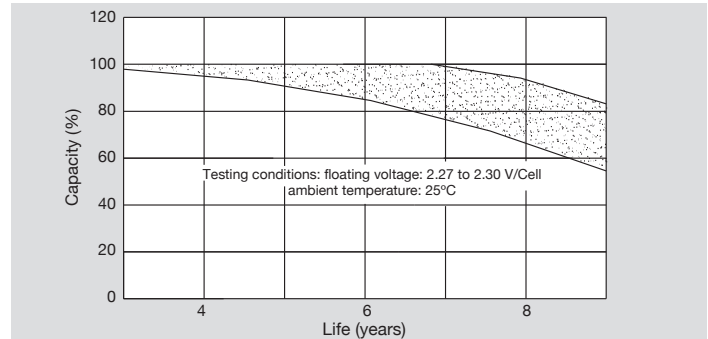
Constant Voltage Charging Characteristic (0.25 CA, 25°C)



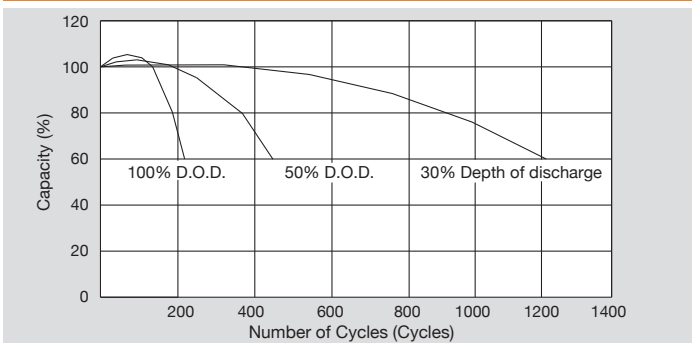
Relationship Between Charging Voltage and Temperature



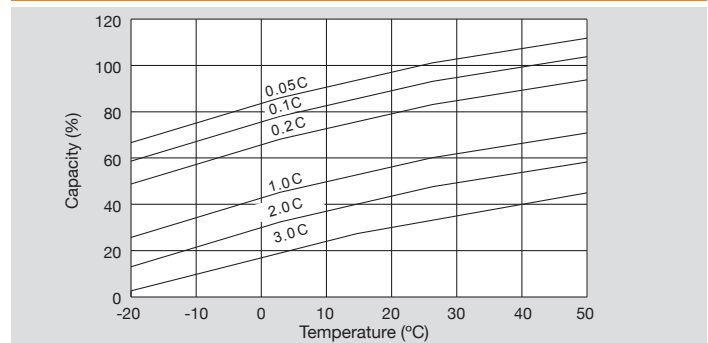
Life Characteristics of Standby Use



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity



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