

AccuForce 12V - 80Ah | 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	23 kg	
Nominal Capacity (25°C)	20 hours rate (4.2 A, 10.8 V)	84.0 Ah
	10 hours rate (8.0 A, 10.8 V)	80.0 Ah
	5 hours rate (14.0 A, 10.5 V)	70.0 Ah
	1 hour rate (49.6 A, 9.6 V)	49.6 Ah
Max. Discharge Current (25°C)	800 A (5s)	
Internal Resistance	4.0 mOhms	
Fully Charged battery (25°C)		
Self-Discharge	3% of capacity declined per month at 20°C (average)	
Operating Temperature Range	Discharge	-15°C~50°C
	Charge	-10°C~50°C
	Storage	-20°C~50°C
Short Circuit Current	2215 A	
	Cycle use	2.40-2.45 Vpc
Charge Methods:	Maximum charging current	24 A
	Temperature compensation	-30 mV/°C
	Standby use	2.23-2.27 Vpc
	Temperature compensation	-18 mV/°C

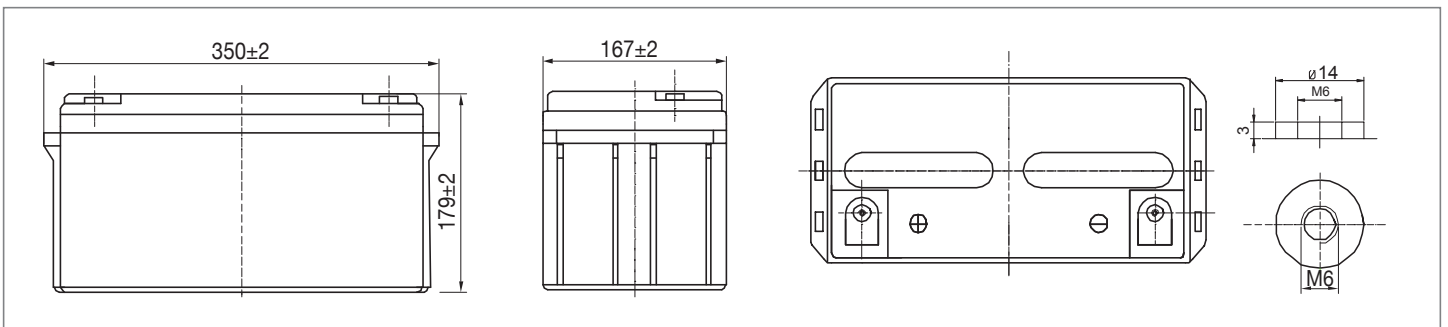
Applications

- 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)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60 V	168	132	80.0	49.6	29.2	20.4	16.7	14.3	9.79	8.14	4.28
1.65 V	163	129	78.4	48.9	29.1	20.3	16.6	14.2	9.73	8.13	4.27
1.70 V	156	124	76.0	47.6	28.8	20.1	16.5	14.1	9.67	8.10	4.25
1.75 V	150	120	74.2	46.7	28.4	20.0	16.4	14.0	9.60	8.06	4.23
1.80 V	141	114	71.4	45.2	27.6	19.4	15.9	13.6	9.31	8.00	4.20

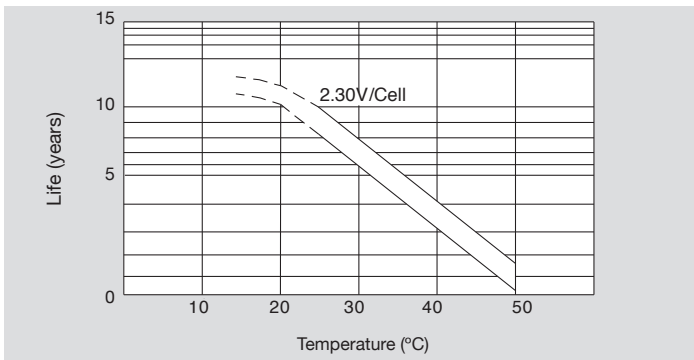
Constant Power Discharge (Watts) at 25°C

End Voltage (Volts/Cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60 V	1814	1449	898	565	339	240	197	169	116	97.2	51.3
1.65 V	1760	1415	880	557	337	238	196	168	116	97.0	51.2
1.70 V	1687	1362	853	543	334	237	194	167	115	96.8	51.1
1.75 V	1615	1316	832	532	329	235	193	165	114	96.2	50.8
1.80 V	1524	1246	802	516	320	228	187	161	111	95.5	50.4

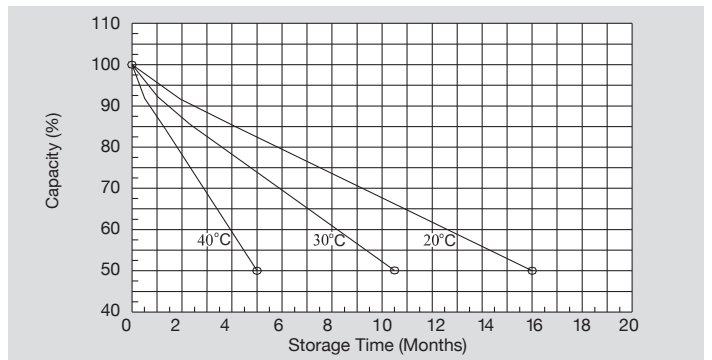
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

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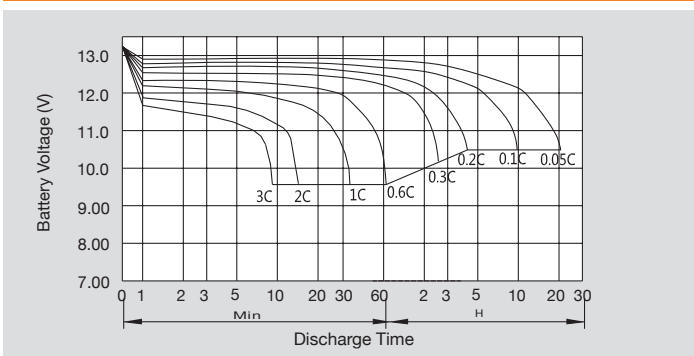
Temperature Effects on Float Life



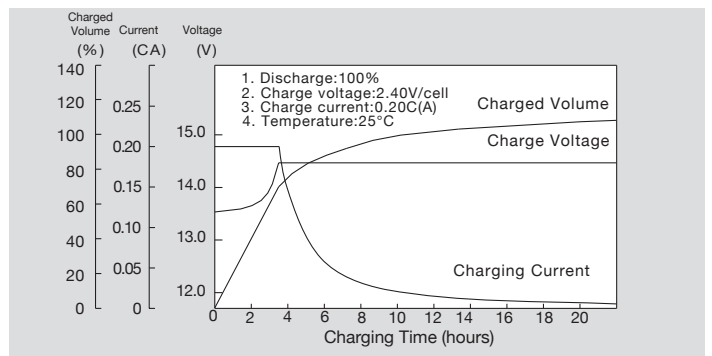
Self Discharge Characteristics



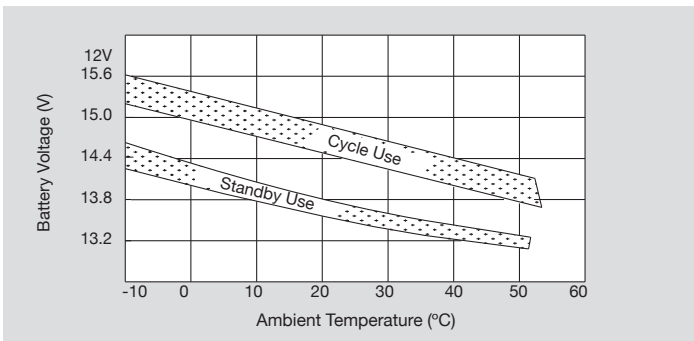
Discharge Characteristics (25°C)



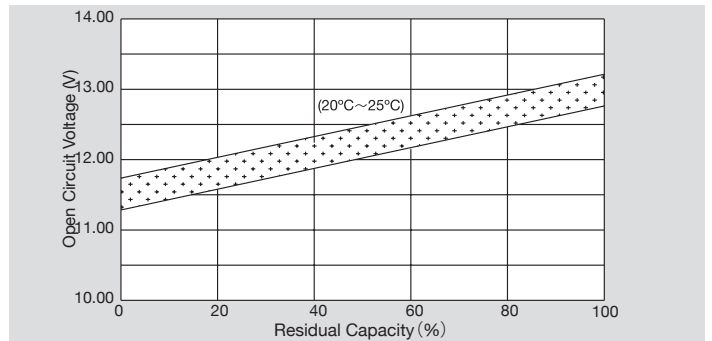
Constant Voltage Charging Characteristic (0.25 CA, 25°C)



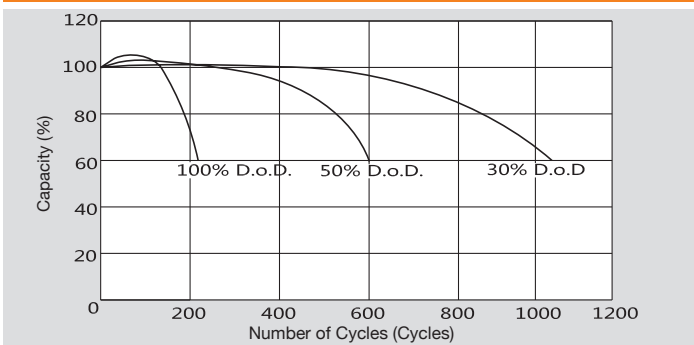
Relationship Between Charging Voltage and Temperature



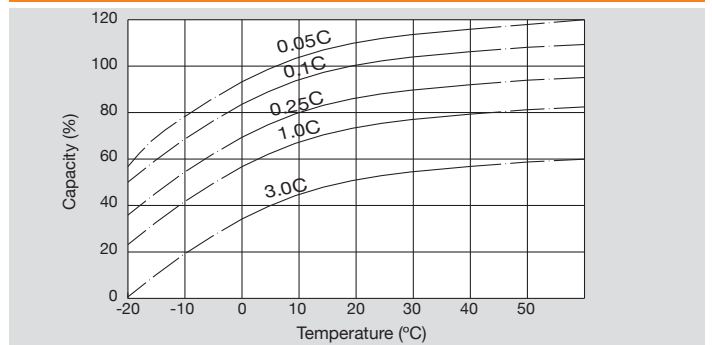
Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity



SYSTEMS SUNLIGHT S.A.

Headquarters

2 Ermou & Nikis Str., Syntagma Sq.
105 63 Athens, Attica, Greece

T +30 210 6245400 F +30 210 6245409

European Manufacturing Plant

672 00 Neo Olvio, Xanthi, Greece

T +30 25410 48100 F +30 25410 95446

Global Service Department

90 Tatoiou Str.

136 73 Acharnes, Attica, Greece

T +30 210 6245600 F +30 210 6245619

