

# SPA 12 - 26 | 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

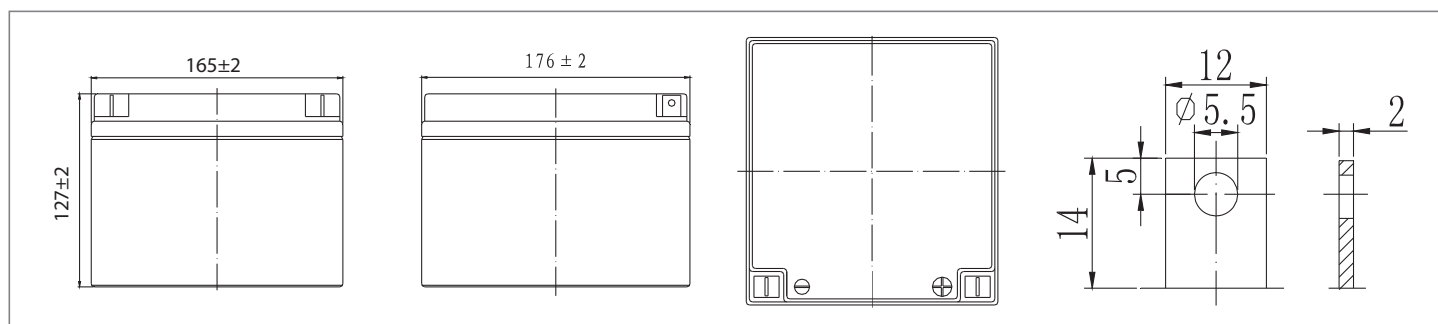
## Specifications

Nominal Voltage	12 V	
Number of cells	6	
Design Life	10 years	
Dimensions	Length	165 mm
	Width	176 mm
	Height	127 mm
	Total Height	127 mm
Approx. Weight	7.6 kg	
Nominal Capacity (25°C)	20 hours rate (1.30 A, 10.5 V)	26.00 Ah
	10 hours rate (2.44 A, 10.5 V)	24.40 Ah
	5 hours rate (4.16 A, 10.5 V)	20.80 Ah
	1 hour rate (15.80 A, 9.6 V)	15.80 Ah
Max. Discharge Current (25°C)	390 A (5s)	
Max. Charging Current (25°C)	7.8 A	
Internal Resistance	12 mOhms	
Fully Charged battery (25°C)		
Self-Discharge (25°C)	3% of capacity declined per month (average)	
	Discharge	-15~50°C
	Charge	-10~50°C
Operating Temperature Range	Storage	-20~50°C
	Short Circuit Current	815 A
Charge Methods:	Cycle use	2.40-2.45 Vpc
	Temperature compensation	-30 mV/°C
Constant Voltage Charge (25°C)	Standby use	2.25-2.30 Vpc
	Temperature compensation	-18 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



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

End Voltage (Volts/Cell)	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	58.5	46.3	25.9	15.8	8.79	6.29	4.91	4.24	2.78	2.48	1.32
1.65 V	56.2	45.1	25.4	15.6	8.74	6.25	4.88	4.22	2.77	2.47	1.31
1.70 V	54.3	43.5	24.6	15.2	8.66	6.21	4.84	4.19	2.75	2.46	1.30
1.75 V	51.9	42.0	24.0	14.9	8.53	6.16	4.81	4.16	2.73	2.44	1.30
1.80 V	48.9	39.8	23.1	14.4	8.31	5.98	4.67	4.04	2.65	2.40	1.22

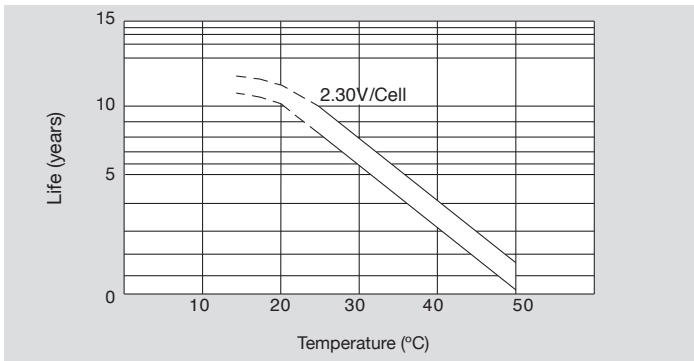
## Constant Power Discharge (Watts) at 25°C

End Voltage (Volts/Cell)	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	660	528	297	183	103	74.7	58.4	50.7	33.4	29.8	15.8
1.65 V	634	514	291	181	102	74.2	58.1	50.4	33.2	29.7	15.7
1.70 V	612	496	282	176	101	73.7	57.7	50.0	33.0	29.5	15.6
1.75 V	586	479	275	173	99.8	73.2	57.3	49.7	32.8	29.3	15.6
1.80 V	551	453	265	167	97.2	71.0	55.6	48.2	31.8	28.7	14.7

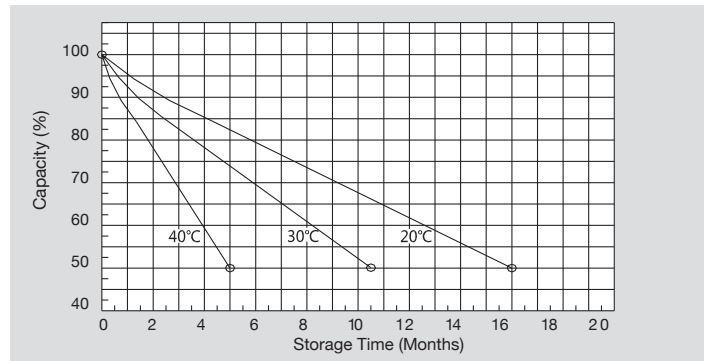
(Note) The above characteristics data are average values obtained within three charge/discharge cycles.

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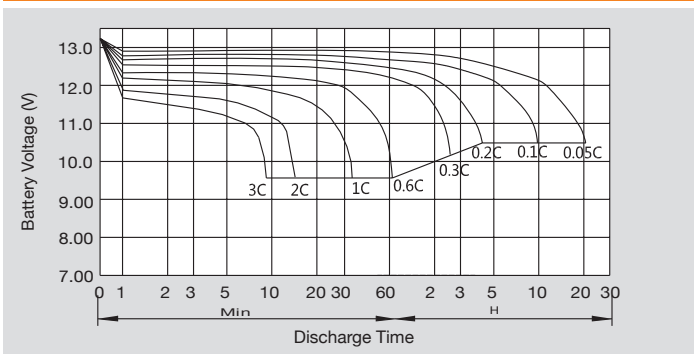
## Temperature Effects on Float Life



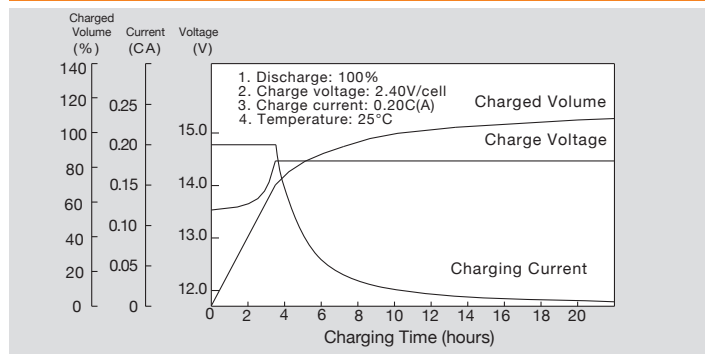
## Self Discharge Characteristics



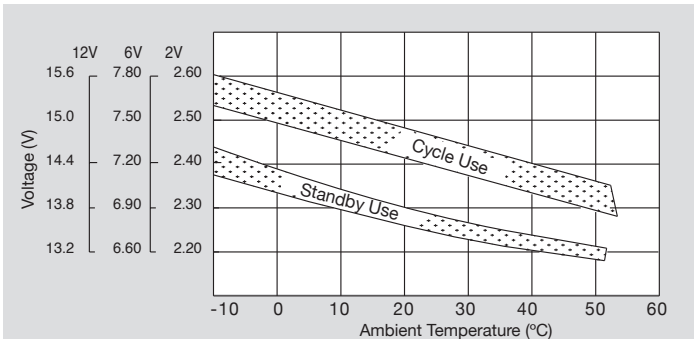
## Discharge Characteristics (25°C)



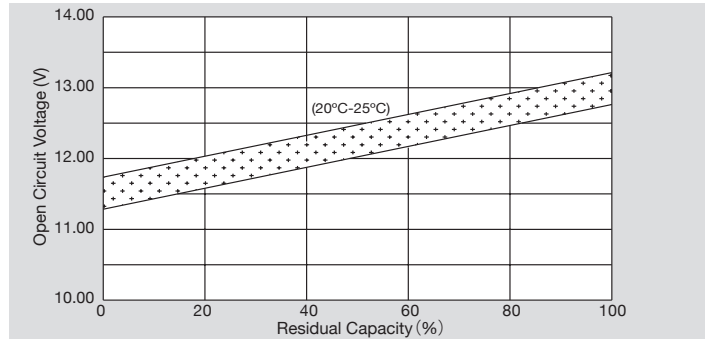
## Constant Voltage Charging Characteristic 25°C



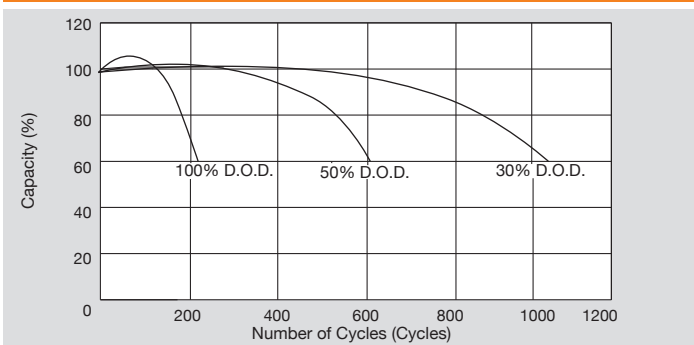
## Relationship Between Charging Voltage and Temperature



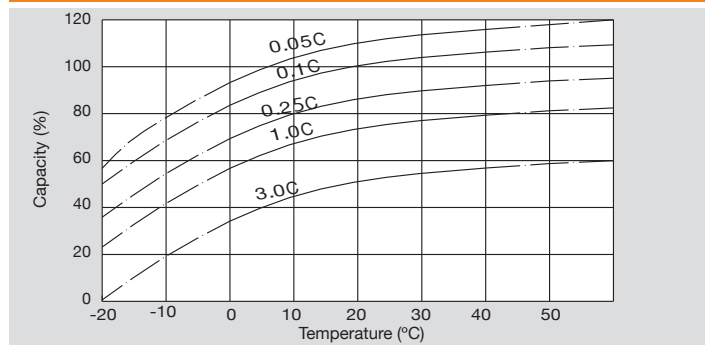
## Relationship Between Open Circuit Voltage and Residual Capacity (25°C)



## 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

