

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

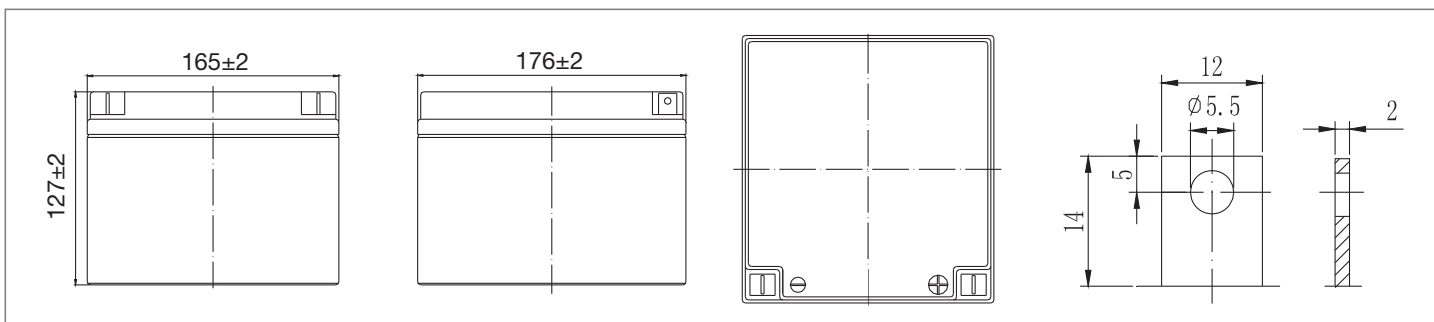
Specifications

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)	
Operating Temperature Range	Discharge	: -15~50°C
	Charge	: -10~50°C
	Storage	: -20~50°C
Short Circuit Current	1020 A	
Charging Characteristics (25°C)	Boost charging voltage	2.40-2.45 Vpc
	Temperature compensation	-30 mV/°C
	Float charging voltage	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

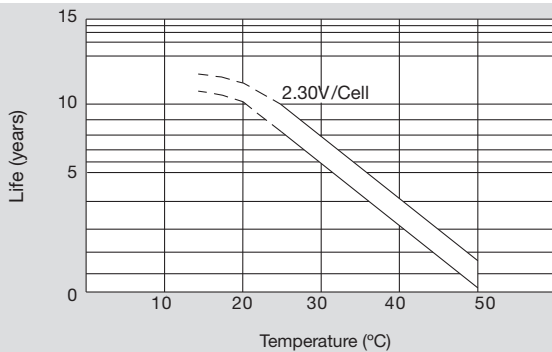
Constant Power Discharge (Watts) at 25°C

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

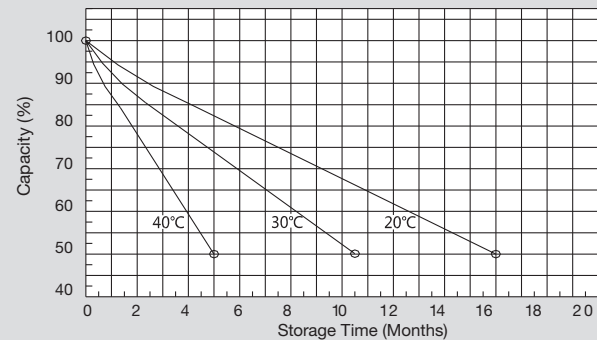
(Note) The above characteristics data are average values obtained within three charge/discharge cycles.

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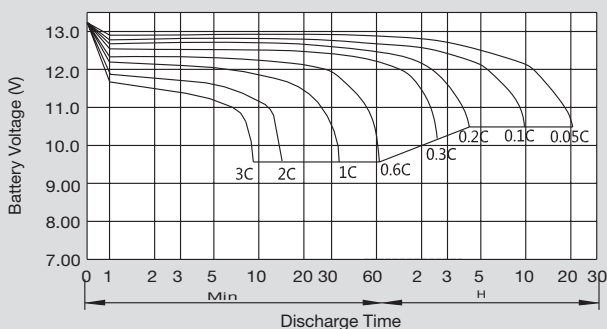
Temperature Effects on Float Life



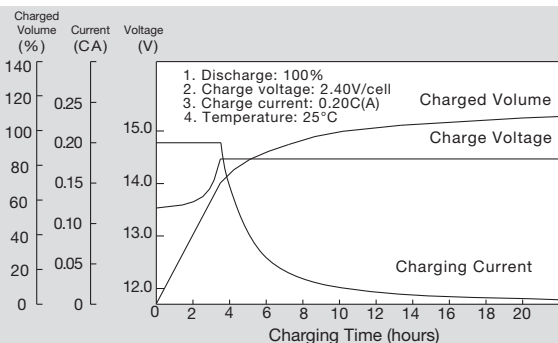
Self Discharge Characteristics



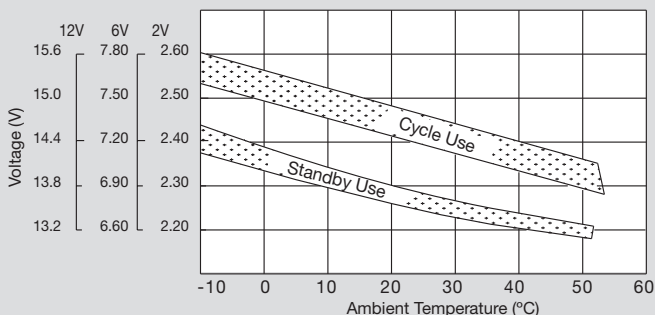
Discharge Characteristics (25°C)



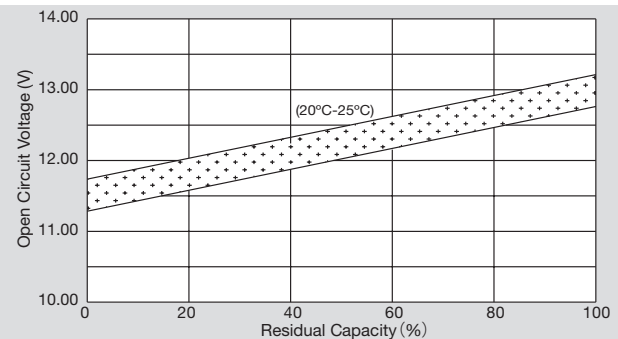
Charging Characteristics (25°C)



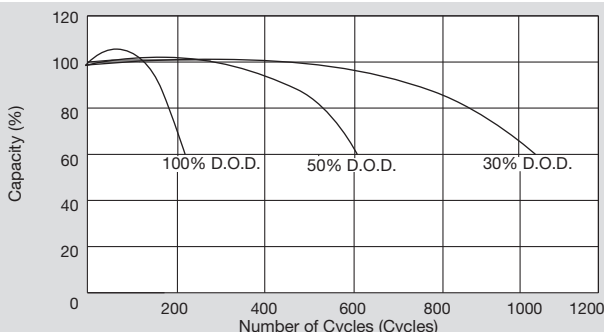
Relationship Between Charging Voltage and Temperature



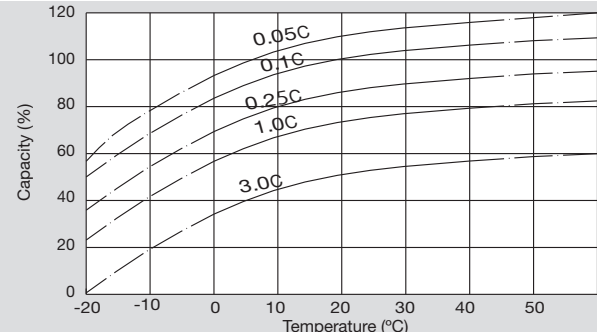
Relationship Between Open Circuit Voltage and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity



Headquarters 2 Ermou & Nikis Street | Syntagma Square | 105 63 | Athens | Greece | EU

Manufacturing Plant Neo Olvio | 672 00 Xanthi | Greece | EU

Recycling Plant Industrial Area of Komotini | 691 00 Komotini | Greece | EU

Southeast Europe Industrial Sales 14B Menexedon Street | 145 64 Kato Kifissia | Greece | EU

European Battery Assembly (SEBA) 175, Via Stra | 37030 Colognola Ai Colli Verona | Italy | EU

Industrial SRL 11, Soseaua Centurii | 077025 Bragadiru, Judet Ilfov | Romania | EU

T +30 210 6245400

T +30 25410 48100

T +30 25310 82460

T +30 210 6245600

T +39 045 7651771

T +40 021 3517777

F +30 210 6245409

F +30 25410 95446

F +30 25310 82489

F +30 210 6245619

F +39 045 7651771

F +40 021 3516667

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