

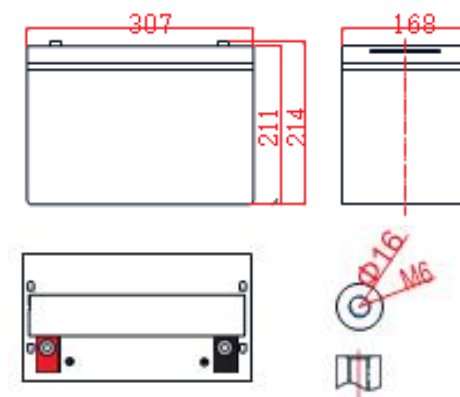
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Product Image



VRLA Battery DC-EV 95-12 12V 95Ah

Product Dimensions



Characteristics

Nominal Voltage		12V
Nominal Capacity (20 hour rate)		95Ah
Capacity 25°C (77°F)	10 hour rate (9.0A)	90.0Ah
	3 hour rate (24.2A)	72.6Ah
	1 hour rate (58.9A)	58.9Ah
Internal Resistance	Full Charged Battery 25°C	≤5.4mΩ
Max Discharge current		1080A (5s)
Operating Temperature	Discharge: -40 ~60°C (-40 ~ 140°F)	
	Charge: -20 ~50°C (-4 ~ 122°F)	
	Storage: -20 ~50°C (-4 ~ 122°F)	
Self-Discharge		3 % of capacity declined per month
Charge (Constant Voltage) 25°C (77°F)	Float	13.5-13.8V, recom. 13.5V
	Cycle	13.5-13.8V, recom. 13.62V
Equalize charge:		13.8-14.1V, recom. 14.1V (-4mV/ °C)
Cycle charge:		14.4-15.0V, recom. 14.4V (-5mV/ °C)

Packaging

DIMENSIONS & WEIGHT	Length	307 mm
	Width	168 mm
	Height	211 mm
	Total Height	214 mm
	Net Weight	28.5 kg±3%

COMPLIED STANDARDS

IEC 60896-21/22 JIS C8704

YD/T799 BS6290 part4

GB/T 19638 UL 1989

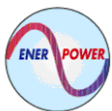
Discharge Constant Current per Cell (Amperes at 25°C)

FV/Time	5min	15mi	30mi	1h	2h	3h	5h	8h	10h	20h
1.60V	317	170	104	60.6	34.8	25.2	16.9	11.1	9.36	4.91
1.65V	307	165	102	60.2	34.6	25.0	16.8	11.0	9.27	4.89
1.70V	295	162	100	59.8	34.3	24.6	16.6	10.9	9.18	4.86
1.75V	271	156	99.2	58.9	33.8	24.3	16.4	10.8	9.09	4.84
1.80V	243	146	94.9	57.4	33.2	24.2	16.0	10.8	9.00	4.82

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

FV/Time	5min	15mi	30mi	1h	2h	3h	5h	8h	10h	20h
1.60V	532	300	188	115	65.7	48.0	32.1	21.6	18.0	9.72
1.65V	511	295	186	114	65.5	47.4	31.9	21.4	17.8	9.68
1.70V	509	291	186	113	65.3	47.1	31.7	21.3	17.6	9.63
1.75V	474	290	185	112	64.9	46.8	31.5	21.2	17.5	9.59
1.80V	436	274	180	111	64.7	46.7	31.1	21.0	17.3	9.54

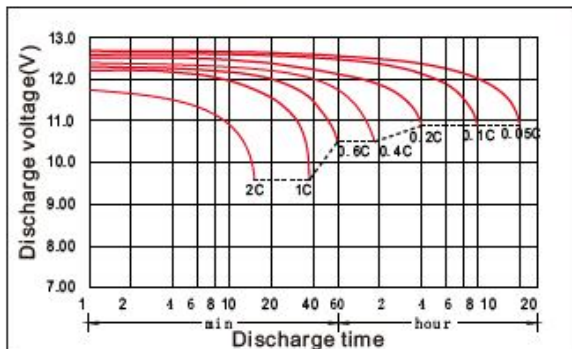
Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact ENERPOWER SRL for the latest information.



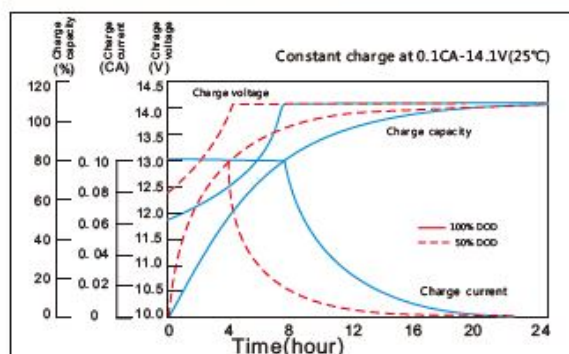
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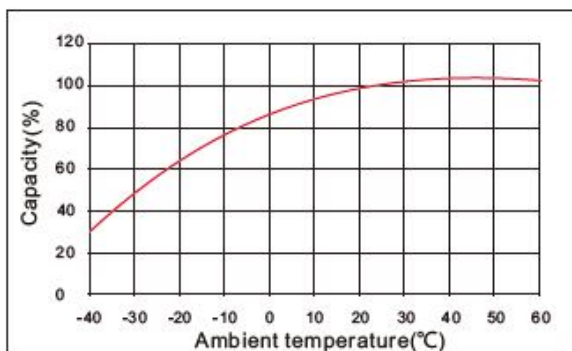
Discharge characteristic



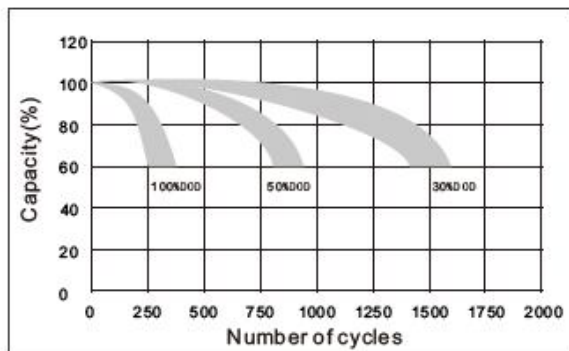
Charging characteristic



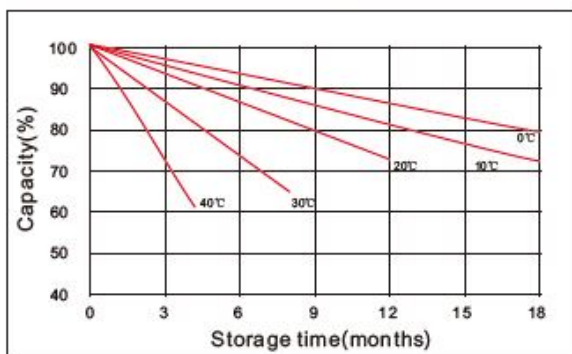
The effect of temperature on capacity



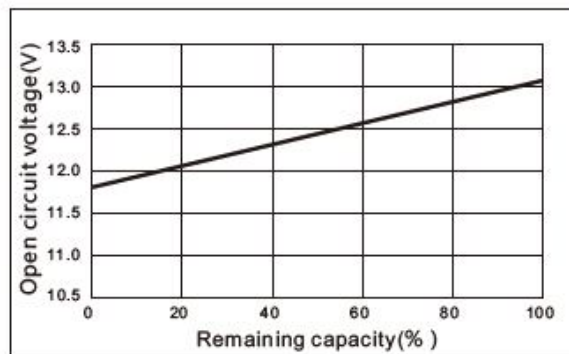
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	ABS (UL94-V0 optional)	Flame Si-Rubbeand aging resistancer	Female Copper Insert M6(torque:4~6N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal