

## DATASHEET

# DCEV 95-12

12V 95AH



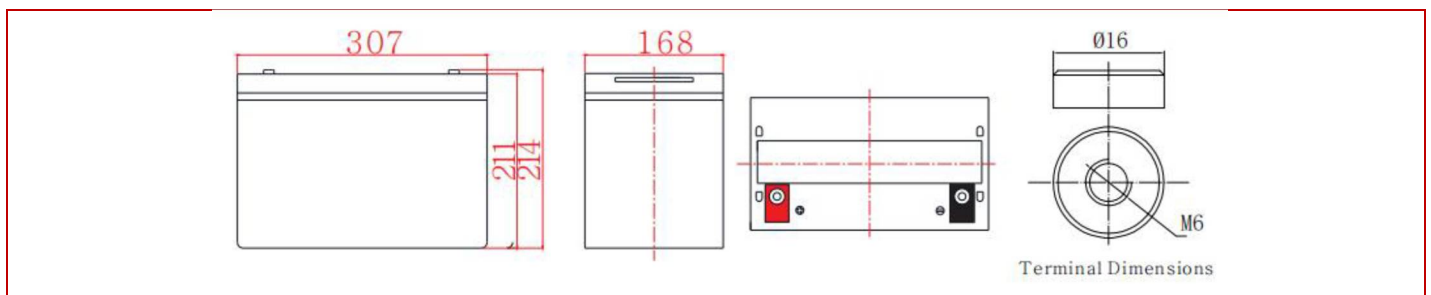
**GEL SEALED VRLA BATTERY**

**EUROBAT 2022 CLASSIFICATION: 12 Years – Long Life**

**Designed in accordance with IEC 60896-21/22**

### SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ±3mm				Weight	Short-Circuit Current	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
12V	95AH	307mm	168mm	211mm	214mm	28,5kg	1.846A	≈2.3 mΩ	M6	ABS UL94-V0



Terminal Dimensions

### CONSTANT-VOLTAGE CHARGE

Rated Capacity	
10 hour rate (9.0A)	90.0AH
3 hour rate (24.6A)	73.8AH
1 hour rate (60.6A)	60.6AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

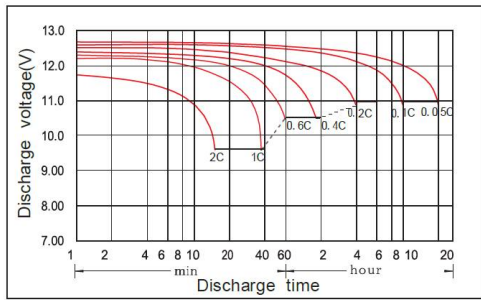
Charge Method (25°C)
Charge current: Max. 22.5A; Recom. 9.0A
Float Charge Voltage: 13.5-13.8V, recom. 13.8V (-18mV/°C)
Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/°C)
Cycle charge: 14.4-15.0V, recom. 14.7V (-30mV/°C)
Operating Temperature
Discharge: -20÷50°C
Charge: -20÷50°C
Storage: -20÷50°C

Nominal Operating Temp. Range
25±3°C (77±5°F)

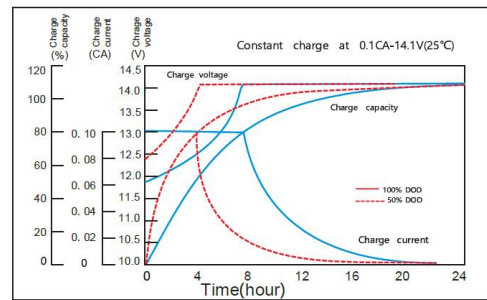
Self Discharge
3% of capacity declined per month at 25°C

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation.

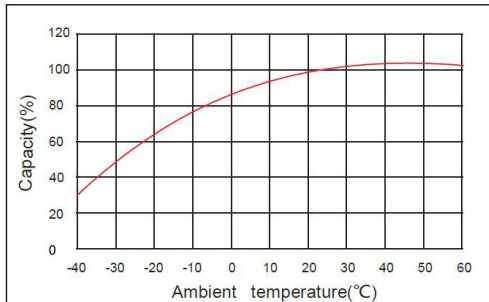
## DISCHARGE CHARACTERISTIC



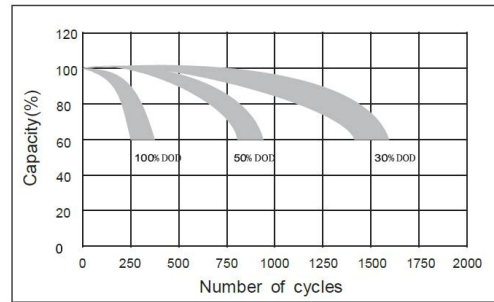
## CHARGING CHARACTERISTIC



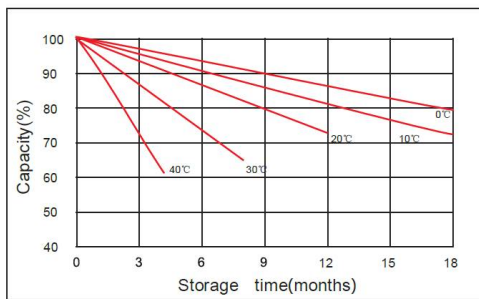
## THE EFFECT OF TEMPERATURE ON CAPACITY



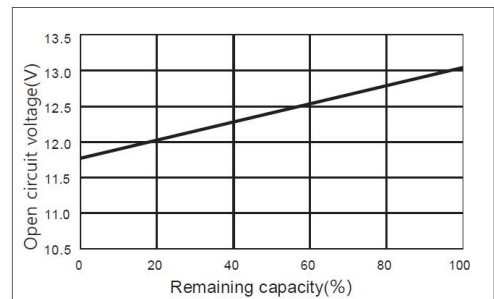
## THE EFFECT OF DISCHARGE DEPTH ON CYCLE LIFE



## CURVES OF SELF-DISCHARGE



## CURVES OF OPEN CIRCUIT VOLTAGE VS. CAPACITY



## Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1,60V / cell	317	211	170	104	74.3	60.6	38.1	34.8	25.2	18.3	16.9	13.5	11.1	9.36	4.91
1,65V / cell	307	209	165	102	73.8	60.2	37.7	34.6	25.0	18.1	16.8	13.4	11.0	9.27	4.89
1,70V / cell	295	208	162	100	73.4	59.8	37.3	34.3	24.6	17.9	16.6	13.2	10.9	9.18	4.86
1,75V / cell	271	205	156	99.2	72.3	58.9	37.0	33.8	24.3	17.7	16.4	13.1	10.8	9.09	4.84
1,80V / cell	243	200	146	94.9	70.4	57.4	36.6	33.2	24.2	17.6	16.0	13.0	10.8	9.00	4.82
1,85V / cell	217	185	130	86.6	65.3	53.2	35.5	31.5	22.8	17.0	15.2	12.6	10.3	8.73	4.73

## Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1,60V / cell	532	359	300	188	138	115	76.0	65.7	48.0	36.0	32.1	26.4	21.6	18.0	9.72
1,65V / cell	511	356	295	186	137	114	75.1	65.5	47.4	35.6	31.9	26.1	21.4	17.8	9.68
1,70V / cell	509	353	291	186	136	113	74.3	65.3	47.1	35.2	31.7	25.8	21.3	17.6	9.63
1,75V / cell	474	349	290	185	134	112	73.9	64.9	46.8	35.0	31.5	25.7	21.2	17.5	9.59
1,80V / cell	436	346	274	180	133	111	73.0	64.7	46.7	34.6	31.1	25.4	21.0	17.3	9.54
1,85V / cell	389	321	245	165	124	103	71.7	61.8	44.4	34.0	29.7	24.9	20.3	17.0	9.45