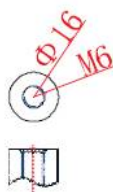
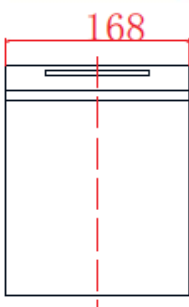
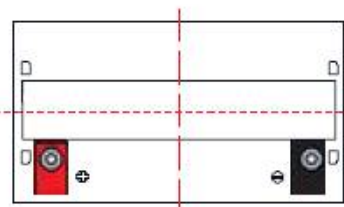
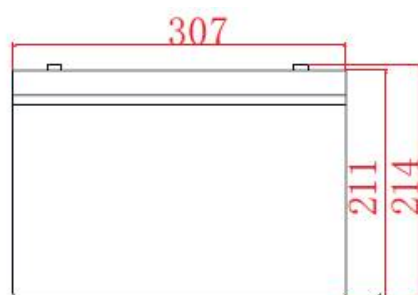




DATASHEET DCEV 95-12

12V 90AH
GEL SEALED VRLA BATTERY
LONG LIFE 12 YEARS OF EXPECTED LIFETIME

(EUROBAT)



Terminal Dimensions

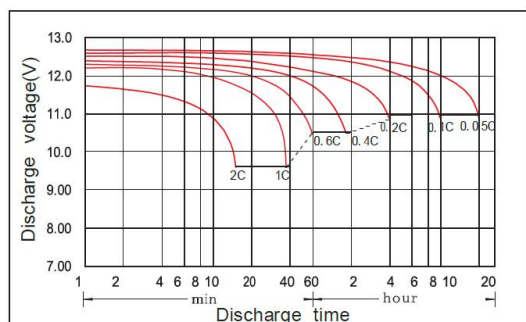
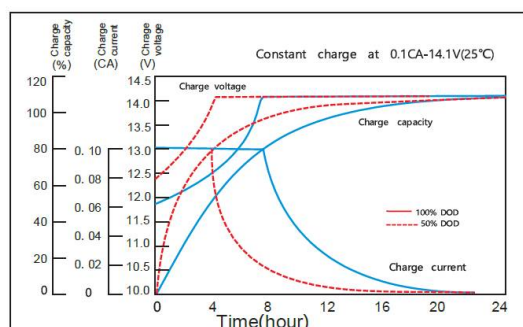
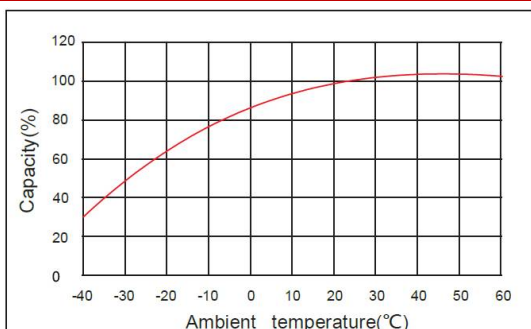
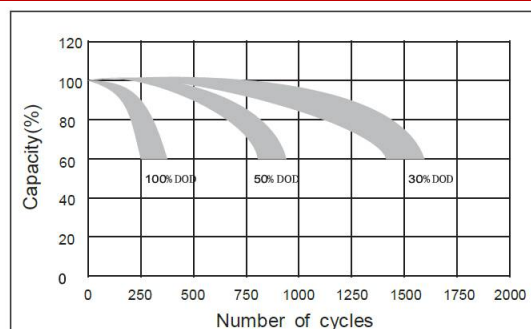
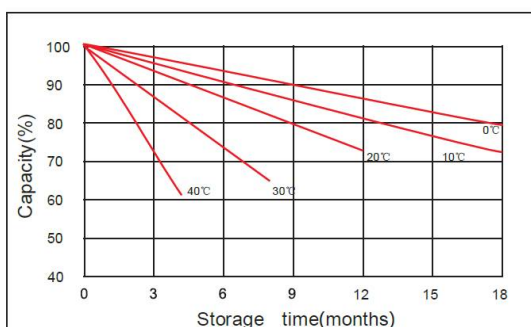
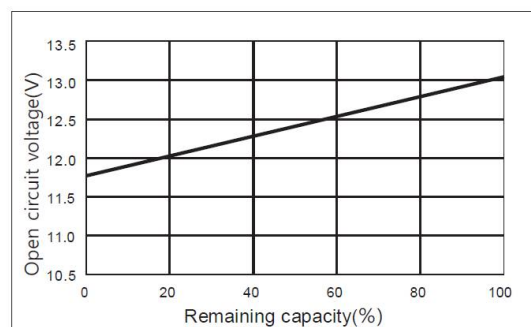
SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	90Ah	
Terminal	M6	
Approx. Weight	Approx 28,5 kg (62,9 lbs)	
Container Material	ABS UL94 V0	
Dimensions	Length	307 ± 2 mm (12,08 inches)
	Width	168 ± 2 mm (6,61 inches)
	Container Height	211 ± 2 mm (8,30 inches)
	Total Height (with terminal)	214 ± 2 mm (8,42 inches)
Rated Capacity	90 Ah	10 hr (9A to 10,8V, 25°C)
	75,6 Ah	3 hr (24,2A to 10,5V, 25°C)
	58,9 Ah	1 hr (58,9A to 10,5V, 25°C)
Max. Discharge Current	1.080,0 A (5 s)	
Internal Resistance	Full charged at 25°C: 5,4 mΩ	

Operating Temperature	Discharge	-40 ÷ 60°C (-40 ÷ 140°F)
	Charge	-20 ÷ 50°C (-4 ÷ 122°F)
	Storage	-20 ÷ 50°C (-4 ÷ 122°F)

Charge method (25°C)	Charge current	Max.22.5A ; Recom.9.0A
	Float Charge	13.5-13.8V, recom.13.5V(-18mV/ °C)
	Equalize charge	13.8-14.1V, recom.14.1V(-24mV/ °C)
	Cycle charge	14.4-15.0V, recom.14.4V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C	



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 Characteristics
Unit: A (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	170	104	60.6	34.8	25.2	16.9	11.1	9.36	4.91
1.65V	165	102	60.2	34.6	25.0	16.8	11.0	9.27	4.89
1.70V	162	100	59.8	34.3	24.6	16.6	10.9	9.18	4.86
1.75V	156	99.2	58.9	33.8	24.3	16.4	10.8	9.09	4.84
1.80V	146	94.9	57.4	33.2	24.2	16.0	10.8	9.00	4.82
1.85V	130	86.6	53.2	31.5	22.8	15.2	10.3	8.73	4.73

Constant Power Discharge Characteristics
Unit: W/cell (25°C, 77°F)

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	300	188	115	65.7	48.0	32.1	21.6	18.0	9.72
1.65V	295	186	114	65.5	47.4	31.9	21.4	17.8	9.68
1.70V	291	186	113	65.3	47.1	31.7	21.3	17.6	9.63
1.75V	290	185	112	64.9	46.8	31.5	21.2	17.5	9.59
1.80V	274	180	111	64.7	46.7	31.1	21.0	17.3	9.54
1.85V	245	165	103	61.8	44.4	29.7	20.3	17.0	9.45