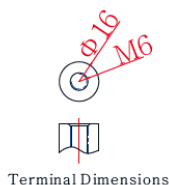
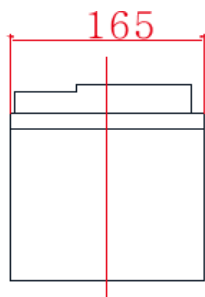
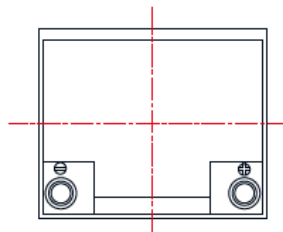
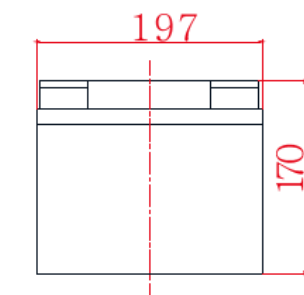
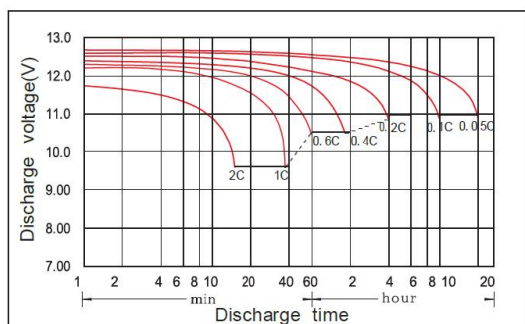
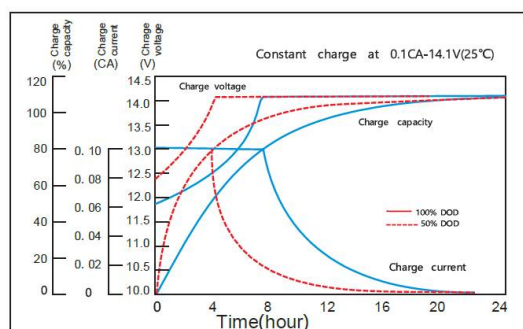
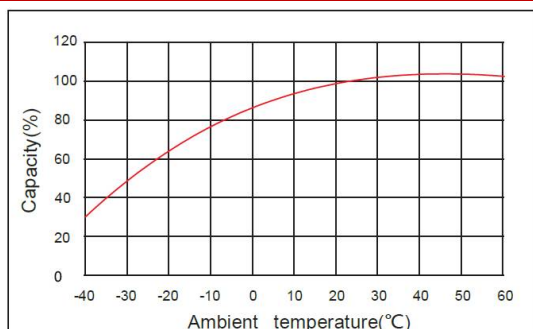
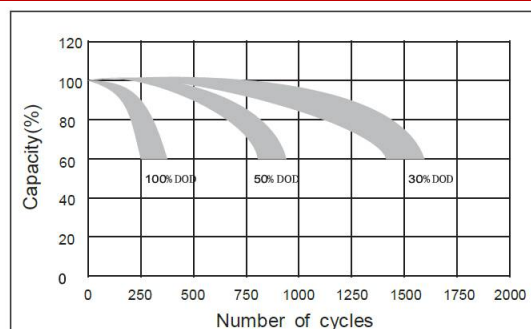
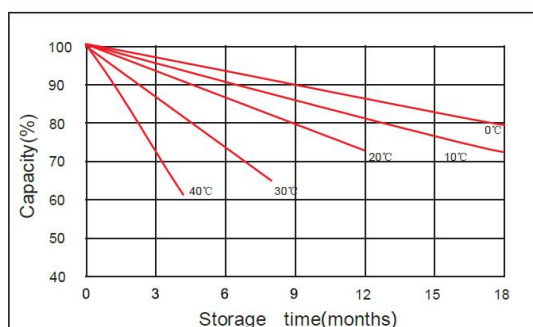
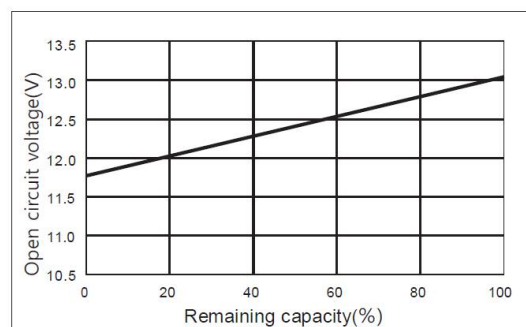


DATASHEET
DCEV 40-12
12V 40AH

GEL SEALED VRLA BATTERY
LONG LIFE 12 YEARS OF EXPECTED LIFETIME
(EUROBAT)

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	40Ah	
Terminal	M8	
Approx. Weight	Approx 13,2 kg (29,1 lbs)	
Container Material	ABS	
Dimensions	Length	197 ± 2 mm (7,75 inches)
	Width	165 ± 2 mm (6,49 inches)
	Container Height	170 ± 2 mm (6,69 inches)
	Total Height (with terminal)	170 ± 2 mm (6,69 inches)
Rated Capacity	40 Ah	10 hr (4A to 10,8V, 25°C)
	32,1 Ah	3 hr (10,7A to 10,5V, 25°C)
	26,2 Ah	1 hr (26,2A to 10,5V, 25°C)
Max. Discharge Current	480,0 A (5 s)	
Internal Resistance	Full charged at 25°C: 12,8 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.10A ; Recom.4.0A	
	Float Charge: 13.5-13.8V, recom.13.5V/ °C	
	Equalize charge: 13.8-14.1V, recom.14.1V/ °C	
	Cycle charge: 14.4-15.0V, recom.14.4V/ °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	75.7	46.1	26.9	15.4	11.2	7.53	4.94	4.16	2.18
1.65V	73.4	45.3	26.8	15.4	11.1	7.45	4.90	4.12	2.17
1.70V	71.9	44.5	26.6	15.2	10.9	7.37	4.86	4.08	2.16
1.75V	69.5	44.1	26.2	15.0	10.8	7.29	4.82	4.04	2.15
1.80V	64.8	42.2	25.5	14.7	10.7	7.10	4.78	4.00	2.14
1.85V	57.8	38.5	23.6	14.0	10.1	6.74	4.58	3.88	2.10

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

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	133	83.3	50.9	29.2	21.3	14.3	9.60	8.00	4.32
1.65V	131	82.6	50.5	29.1	21.1	14.2	9.52	7.92	4.30
1.70V	129	82.6	50.1	29.0	20.9	14.1	9.48	7.84	4.28
1.75V	129	82.2	49.7	28.9	20.8	14.0	9.41	7.76	4.26
1.80V	122	80.2	49.4	28.8	20.7	13.8	9.33	7.68	4.24
1.85V	109	73.5	45.8	27.5	19.7	13.2	9.01	7.56	4.20