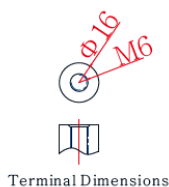
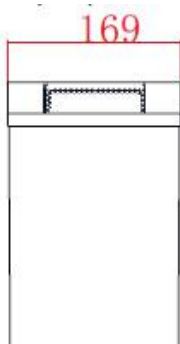
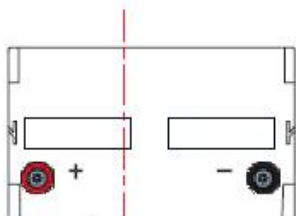
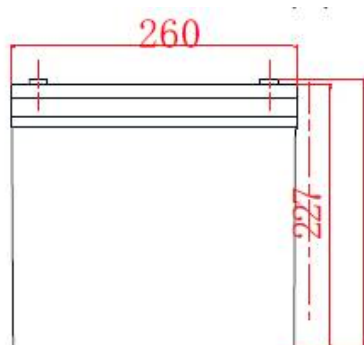




DATASHEET DCEV 80-12

12V 80AH
GEL SEALED VRLA BATTERY
LONG LIFE 12 YEARS OF EXPECTED LIFETIME
(EUROBAT)


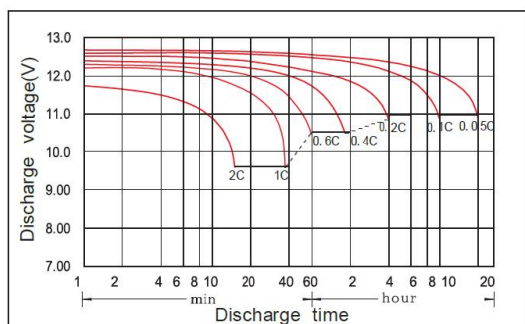
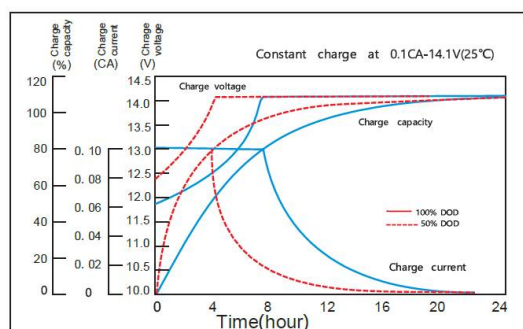
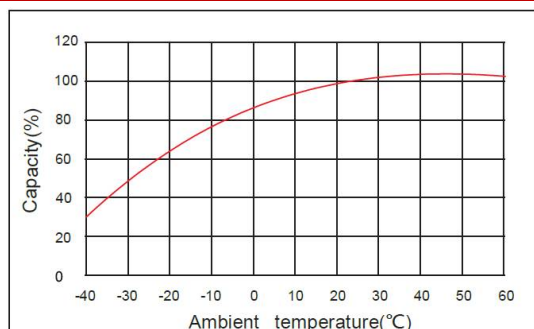
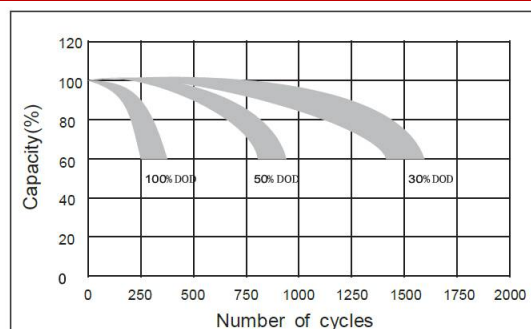
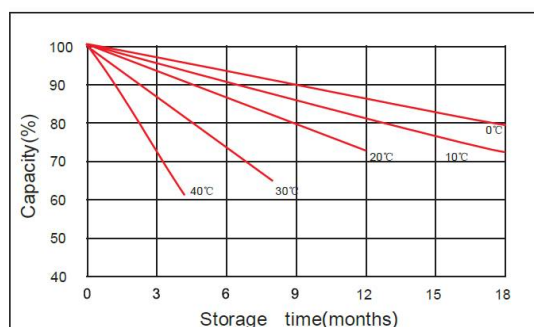
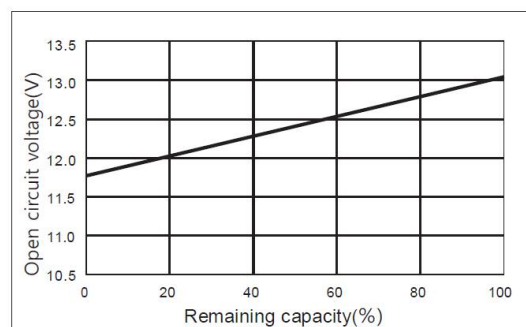
SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	80Ah	
Terminal	M6	
Approx. Weight	Approx 25,2 kg (55,6 lbs)	
Container Material	ABS UL94 V0	
Dimensions	Length	260 ± 2 mm (10,23 inches)
	Width	169 ± 2 mm (6,65 inches)
	Container Height	227 ± 2 mm (8,93 inches)
	Total Height (with terminal)	227 ± 2 mm (8,93 inches)
Rated Capacity	80 Ah	10 hr (8A to 10,8V, 25°C)
	63,3 Ah	3 hr (21,1A to 10,5V, 25°C)
	51,3 Ah	1 hr (51,3A to 10,5V, 25°C)
Max. Discharge Current	960,0 A (5 s)	
Internal Resistance	Full charged at 25°C: 8,0 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.20A ; Recom.8.0A
	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	147	89.4	52.8	30.3	22.0	14.8	9.68	8.28	4.35
1.65V	142	87.8	52.5	30.1	21.7	14.6	9.60	8.20	4.32
1.70V	139	86.3	52.1	29.9	21.4	14.4	9.53	8.12	4.30
1.75V	135	85.6	51.3	29.4	21.2	14.3	9.45	8.04	4.28
1.80V	126	81.8	50.0	28.9	21.1	13.9	9.37	8.00	4.26
1.85V	112	74.7	46.3	27.4	19.8	13.2	8.99	7.72	4.19

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

FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	259	162	99.8	57.2	41.8	28.0	18.8	15.9	8.60
1.65V	254	160	99.0	57.1	41.3	27.8	18.7	15.8	8.56
1.70V	251	160	98.3	56.9	41.0	27.6	18.6	15.6	8.52
1.75V	250	159	97.5	56.5	40.8	27.4	18.4	15.4	8.48
1.80V	236	156	96.7	56.4	40.6	27.1	18.3	15.3	8.44
1.85V	211	143	89.8	53.9	38.6	25.9	17.7	15.0	8.36