

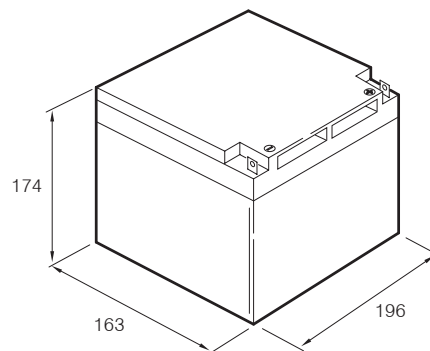
TECHNICAL DATA SHEET OF BA-080



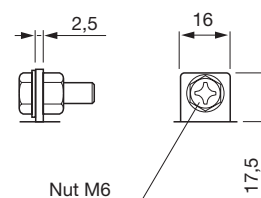
Performance Specification for battery type BA-080

Nominal Voltage	12 Volts
Nominal Capacity	
at 20 hour rate (2,1 A to 10,5 Volts)	42,0 Ah
at 10 hour rate (3,79 A to 10,5 Volts)	37,9 Ah
at 5 hour rate (6,87 A to 10,2 Volts)	34,4 Ah
at 1 hour rate (24,4 A to 9,0 Volts)	24,4 Ah
Dimension (mm)	Length=196, Width=163, Height=174
Approximate weight	14,6 kg
Energy Density	90,7 Wh/l.
Specific Energy	34,5 Wh/kg
Internal Resistance (Fully charged battery)	5 mΩ
Maximum discharge current in 1 minute discharge	252 A
Maximum short-duration discharge current	630 A
Recommended charging tension (temperature=20°C)	
floating use: 13,5-13,8 V	cyclic use: 14,4-15,0 V
Thermal compensation factor	
floating use: -18mV/°C	cyclic use: -30mV/°C
Maximum charging current	10,5 A
Terminals	Bolt and Nut M6
Vibration Test (2000 cycles/minute, 2,55 mm excursion, 2 hours)	No loss in capacity or performance
Shelf life - % of nominal capacity at 20°C	
1 month	97%
3 months	91%
6 months	83%
Storage temperature	-20°C to 40°C
Operative temperature Range	
Charge	0°C to 40°C
Discharge	-20°C to 50°C
Case material	Acrylonitrile-Butadiene-Styrene
	Standard Case: According to UL-94 HB
	Also Available: According to UL-94 V0
Life expectancy (Stand-by)	3 to 5 years according to Eurobat standards

Battery dimensions (mm)



Terminal type



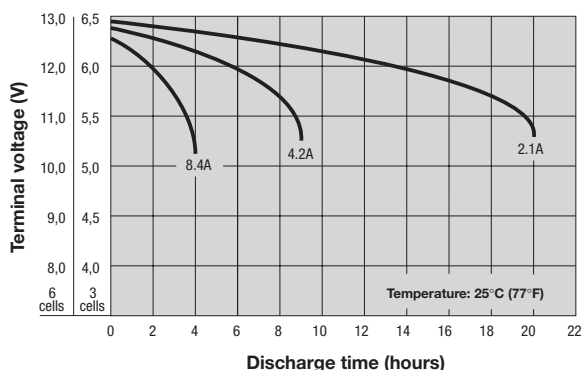
Constant Power Discharge Table (Watt)

Time	5'	10'	15'	20'	30'	45'	1h	2h	3h	5h	10h	20h
1,8V/Cell	1296,0	944,9	760,1	642,5	498,2	379,0	308,9	182,8	132,1	86,3	47,5	25,7
1,75V/Cell	1386,0	981,7	780,4	655,6	505,1	382,7	311,4	184,1	133,1	87,1	47,8	25,7
1,7V/Cell	1482,2	1019,8	801,3	669,0	512,1	386,5	314,0	185,4	134,1	87,8	48,2	25,8
1,65V/Cell	1550,0	1039,7	809,3	672,5	512,7	386,3	313,8	185,7	134,6	88,3	48,5	25,9
1,6V/Cell	1620,8	1060,0	817,4	676,1	513,3	386,1	313,6	186,0	135,1	88,9	48,9	26,0

Constant Current Discharge Table (Ampere)

Time	5'	10'	15'	20'	30'	45'	1h	2h	3h	5h	10h	20h
1,8V/Cell	119	86	68	57	44	33	27	15,7	11,2	7,3	3,96	2,14
1,75V/Cell	129	91	71	59	45	34	27	15,8	11,3	7,3	3,99	2,15
1,7V/Cell	140	96	75	62	47	35	28	16,0	11,4	7,4	4,02	2,15
1,65V/Cell	148	98	75	62	47	35	28	16,1	11,5	7,4	4,05	2,16
1,6V/Cell	156	100	76	63	47	35	28	16,1	11,6	7,5	4,09	2,16

Discharge time vs. discharge current



Discharge time vs. discharge current

