

Eos Series

VRLA Battery



제품요약

VRLA 배터리인 Eos 시리즈는 15년이상 사용가능하도록 설계된 장수명 무보수 밀폐형 연속전지입니다. 가장 높은 최신의 IEC60896-21/22 표준에 맞게 개발된 Eos 시리즈는 사용과 동시에 100% 용량을 제공하며 고객이 만족할 만한 심방전성능을 발휘합니다 또한 유연한 커넥터의 사용과 수평, 수직 설치가 모두 가능하여 설치방식으로 인한 제약이 없어 아주 편리합니다.

일반기능

- 일반 VRLA 배터리보다 더 좋은 방전 특성
- 밀폐구조 디자인
- 방폭형 안전 밸브
- 높은 안전성 및 신뢰할 수 있는 구조
- 높은 내구성 및 향상된 심방전 사이클
- 낮은 자가방전 특성
- 다중 설치를 위한 유연한 디자인

주요적용처

- 무정전전원시스템, 정류기시스템
- 통신 교환과 전송 시스템
- 모바일 커뮤니케이션 시스템
- 발전소 및 전력 변환 시스템
- 항법보조 시그널링 시스템
- 태양 에너지 시스템
- 라디오와 방송국
- 응급 조명 시스템

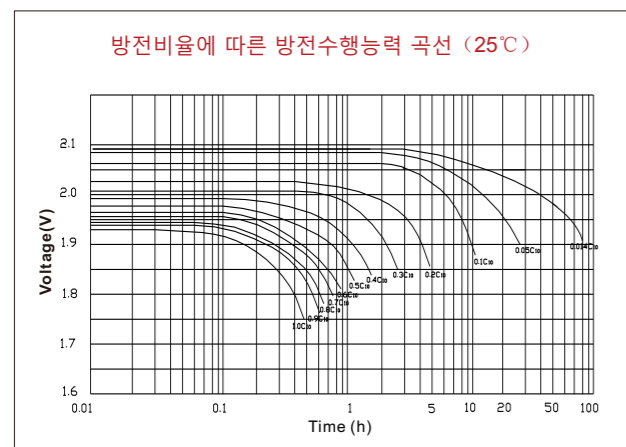
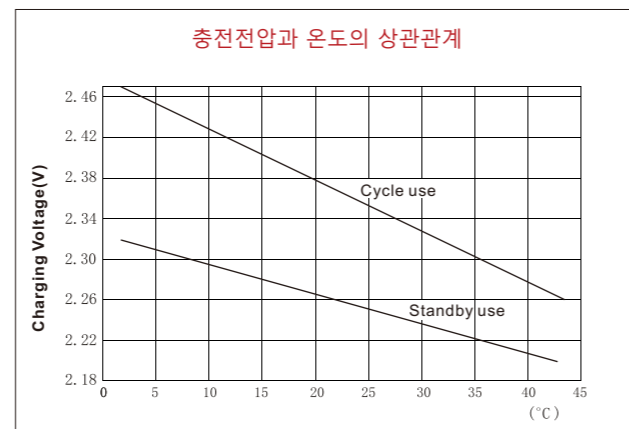
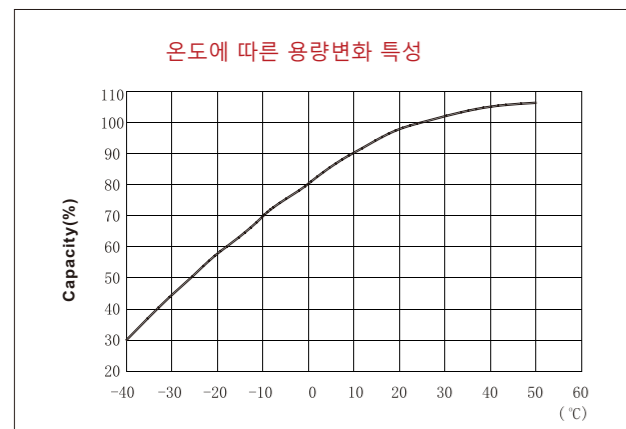
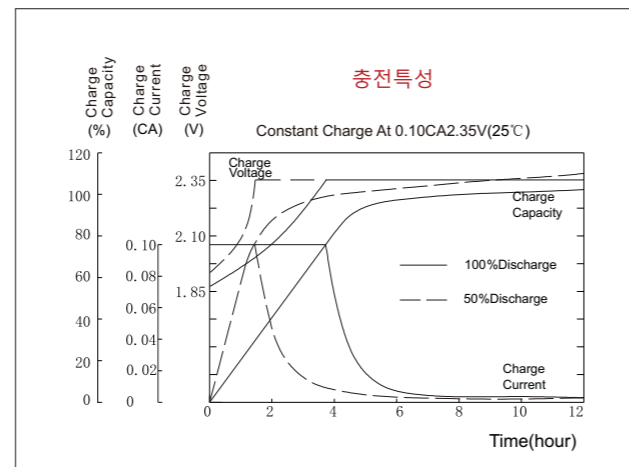
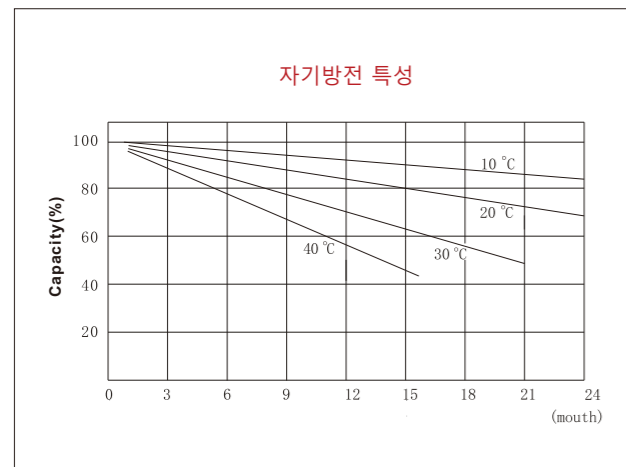
기술표준

- IEC60896-21/22
- BS6290 Part 4
- Telcordia SR4228
- Eurobat guide
- UL
- Manufactured under system ISO9001(TUV)

Narada Eos series battery specification

Cell Type	Nominal voltage (V)	Rated Capacity (Ah)			Dimensions (mm)			Height with terminal	Weight (kg)
		C ₁₀	C ₅	C ₁	Length	Width	Height		
Eos-200	2	200	150	110	94.5	184.5	360.5	372	14.3
Eos-260	2	260	195	143	109	184.5	360.5	372	17
Eos-300	2	300	225	165	123	184.5	360.5	372	19
Eos-400	2	400	300	220	166	184.5	360.5	372	26
Eos-500	2	500	375	275	194.5	184.5	360.5	372	31
Eos-600	2	600	450	330	223	184.5	360.5	372	37
Eos-800A	2	800	600	440	280	186	360.5	372	47
Eos-800	2	800	600	440	154	229	555	566	52
Eos-1000A	2	1000	750	550	339	190	360.5	372	58
Eos-1000	2	1000	750	550	186	229	555	566	62
Eos-1200	2	1200	900	660	225	229	555	566	75
Eos-1500	2	1500	1125	825	265.5	229	555	566	92
Eos-2000	2	2000	1500	1100	349	233	555	566	121
Eos-3000	2	3000	2250	1650	496	363	361.7	373.5	175

특성곡선



내부저항과 단락전류 (25°C)

Type	Internal Resistance (mΩ)	Short Circuit Current (A)
Eos-200	0.66	3084
Eos-260	0.54	3400
Eos-300	0.47	3960
Eos-400	0.35	5089
Eos-500	0.33	6009
Eos-600	0.28	7178
Eos-800A	0.20	9296
Eos-800	0.21	9061
Eos-1000A	0.17	12880
Eos-1000	0.18	10696
Eos-1200	0.17	12068
Eos-1500	0.14	14068
Eos-2000	0.11	17217
Eos-3000	0.10	20600

기술사양

- AGM 기술 적용
- 15년이상의 설계 수명(부동충전 사용시, 20°C기준)
- 신뢰할 수 있는 밀폐성능, 99%에 달하는 가스 재결합 효율
- 초기 용량 100% 이상, 3개월 저장 후 초기용량의 94% 이상 보존 (25°C)
- 유연한 커넥터와 편리한 설치

제품특성

- 공칭전압 : 2V
- 최대 허용충전전류 : 0.25C₁₀A
- 전해액 : 1.300g/cm³
- 부동충전전압 : 2.25V/cell(25°C)
- 균등충전전압 : 2.35V/cell
- 자기방전특성 : 2%/월 이하 (20°C)
- 단자토크 : 15±1.0 N·m
- 전조 및 커버재질 : ABS (난연사양 옵션, V0 - 난연최고등급)



NARADA POWER SOURCE CO.,LTD.



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대전지사 : 대전 서구 내동 32-11
042-524-6072
광주지사 : 광주광역시 서구 금호동 916-5
062-653-3507



Constant Current Discharge Characteristics Units: Amperes (25°C ,77°F)

Type	End voltage per cell	5min	15min	30min	1h	2h	3h	5h	6h	8h	10h	24hour
Eos-200	1.60V	333.3	279.1	206.7	130.7	77.0	56.5	38.3	33.1	26.4	21.9	9.8
	1.70V	287.8	244.0	182.2	118.4	72.5	53.5	37.1	32.2	25.5	21.3	9.6
	1.75V	274.3	231.0	169.3	112.9	69.9	51.9	36.0	31.7	25.2	21.0	9.5
	1.80V	263.8	217.8	158.4	105.7	66.9	50.3	35.2	30.9	24.8	20.6	9.3
	1.85V	233.6	193.1	141.2	95.4	60.4	47.7	34.0	29.9	24.0	20.0	9.0
	1.90V	200.9	163.3	121.2	84.7	56.6	44.7	32.7	28.8	23.1	19.3	8.8
Eos-260	1.60V	433.3	362.9	268.7	169.9	100.1	73.5	49.8	43.0	34.3	28.5	12.7
	1.70V	374.2	317.2	236.8	153.9	94.2	69.6	48.2	41.9	33.2	27.7	12.5
	1.75V	356.6	300.3	220.1	146.7	90.9	67.4	46.8	41.2	32.8	27.3	12.4
	1.80V	343.0	283.1	205.9	137.5	87.0	65.4	45.8	40.2	32.2	26.7	12.1
	1.85V	303.7	251.1	183.6	124.1	78.5	62.0	44.2	38.9	31.2	26.0	11.8
	1.90V	261.1	212.3	157.5	110.2	73.6	58.2	42.6	37.4	30.1	25.1	11.5
Eos-300	1.60V	500.0	418.7	310.1	196.0	115.5	84.8	57.5	49.6	39.6	32.8	14.6
	1.70V	431.8	366.0	273.2	177.6	108.7	80.3	55.6	48.3	38.3	32.0	14.4
	1.75V	411.4	346.5	253.9	169.3	104.9	77.8	54.1	47.5	37.8	31.5	14.3
	1.80V	395.7	326.7	237.6	158.6	100.4	75.4	52.8	46.3	37.1	30.8	14.0
	1.85V	350.4	289.7	211.9	143.2	90.6	71.6	51.0	44.8	36.1	30.0	13.6
	1.90V	301.3	245.0	181.8	127.1	84.9	67.1	49.1	43.2	34.7	29.0	13.2
Eos-400	1.60V	666.6	558.3	413.4	261.4	154.0	113.0	76.7	66.1	52.7	43.8	19.5
	1.70V	575.7	488.0	364.3	236.8	144.9	107.1	74.1	64.4	51.1	42.7	19.3
	1.75V	548.6	462.0	338.6	225.7	139.9	103.8	72.1	63.4	50.5	42.1	19.0
	1.80V	527.6	435.6	316.8	211.5	133.8	100.6	70.4	61.8	49.5	41.1	18.7
	1.85V	467.2	386.3	282.5	190.9	120.8	95.4	68.0	59.8	48.1	40.0	18.1
	1.90V	401.8	326.6	242.4	169.5	113.3	89.5	65.5	57.6	46.3	38.6	17.7
Eos-500	1.60V	833.3	697.9	516.8	326.7	192.6	141.3	95.8	82.7	65.9	54.7	24.4
	1.70V	719.6	610.0	455.4	296.0	181.2	133.8	92.7	80.5	63.9	53.4	24.1
	1.75V	685.7	577.5	423.2	282.2	174.8	129.7	90.1	79.2	63.1	52.6	23.8
	1.80V	659.6	544.5	396.0	264.3	167.3	125.7	88.0	77.2	61.9	51.4	23.3
	1.85V	584.0	482.8	353.1	238.6	151.0	119.3	85.0	74.7	60.1	50.0	22.6
	1.90V	502.2	408.3	302.9	211.9	141.6	111.9	81.9	72.0	57.8	48.3	22.1
Eos-600	1.60V	999.9	837.4	620.1	392.0	231.1	169.5	115.0	99.2	79.1	65.7	29.3
	1.70V	863.5	732.1	546.5	355.2	217.4	160.6	111.2	96.6	76.6	64.0	28.9
	1.75V	822.8	693.0	507.9	338.6	209.8	155.6	108.1	95.0	75.7	63.1	28.5
	1.80V	791.5	653.4	475.2	317.2	200.8	150.9	105.6	92.7	74.3	61.7	28.0
	1.85V	700.8	579.4	423.7	286.3	181.2	143.2	102.0	89.7	72.1	60.0	27.1
	1.90V	602.6	489.9	363.5	254.2	169.9	134.2	98.2	86.4	69.4	58.0	26.5
Eos-800	1.60V	1158.3	974.6	792.0	521.9	320.8	235.5	154.0	132.7	103.9	86.0	39.9
	1.70V	1020.8	868.1	660.5	468.1	301.0	218.9	148.3	127.9	101.5	84.2	39.1
	1.75V	963.0	817.1	609.0	441.9	289.9	213.8	145.7	126.0	100.1	83.5	38.8
	1.80V	909.7	762.0	570.2	419.8	281.2	209.1	142.4	123.6	98.2	82.4	38.0
	1.85V	781.1	648.2	501.3	370.7	253.4	191.8	133.5	116.8	94.2	79.0	36.9
	1.90V	639.7	511.8	416.6	306.5	211.9	171.3	120.9	106.0	85.4	72.0	34.4
Eos-1000	1.60V	1447.9	1218.3	990.0	652.4	401.0	294.4	192.5	165.8	129.8	107.5	49.8
	1.70V	1276.0	1085.2	825.7	585.1	376.2	273.6	185.3	159.9	126.8	105.2	48.9
	1.75V	1203.7	1021.4	761.3	552.4	362.3	267.3	182.2	157.5	125.1	104.3	48.5
	1.80V	1137.2	952.5	712.8	524.7	351.5	261.4	178.0	154.4	122.8	103.0	47.4
	1.85V	976.3	810.2	626.7	463.3	316.8	239.7	166.8	146.0	117.8	98.8	46.1
	1.90V	799.6	639.7	520.7	383.1	264.8	214.2	151.1	132.5	106.8	90.0	43.0
Eos-1200	1.60V	1737.5	1461.9	1188.0	782.9	481.1	353.2	230.9	199.0	155.8	129.0	59.8
	1.70V	1531.2	1302.2	990.8	702.1	451.4	328.3	222.4	191.9	152.2	126.3	58.7
	1.75V	1444.4	1225.7	913.6	662.9	434.8	320.8	218.6	189.0	150.1	125.2	58.2
	1.80V	1364.6	1143.0	855.4	629.6	421.7	313.6	213.6	185.3	147.3	123.6	56.9
	1.85V	1171.6	972.3	752.0	556.0	380.2	287.7	200.2	175.2	141.4	118.5	55.3
	1.90V	959.5	767.6	624.9	459.8	317.8	257.0	181.3	159.0	128.2	108.0	51.6
Eos-1500	1.60V	2171.8	1827.4	1485.0	978.6	601.4	441.5	288.7	248.7	194.7	161.3	74.7
	1.70V	1914.0	1627.7	1238.5	877.6	564.3	410.4	278.0	239.8	190.3	157.9	73.4
	1.75V	1805.5	1532.1	1142.0	828.6	543.5	401.0	273.2	236.3	187.7	156.5	72.7
	1.80V	1705.7	1428.8	1069.2	787.1	527.2	392.0	267.0	231.7	184.1	154.4	71.2
	1.85V	1464.5	1215.4	940.0	695.0	475.2	359.6	250.2	219.0	176.7	148.1	69.1
	1.90V	1199.4	959.5	781.1	574.7	397.2	321.3	226.6	198.7	160.2	135.0	64.5
Eos-2000	1.60V	2895.8	2436.6	1980.0	1304.8	801.9	588.7	384.9	331.7	259.6	215.0	99.7
	1.70V	2552.0	2170.3	1651.3	1170.2	752.4	547.1	370.7	319.8	253.7	210.5	97.8
	1.75V	2407.4	2042.8	1522.6	1104.8	724.7	534.6	364.3	315.1	250.2	208.7	96.9
	1.80V	2274.3	1905.1	1425.6	1049.4	702.9	522.7	356.0	308.9	245.5	205.9	94.9
	1.85V	1952.6	1620.5	1253.3	926.6	633.6	479.5	333.6	292.1	235.6	197.5	92.2
	1.90V	1599.2	1279.4	1041.5	766.3	529.7	428.3	302.1	265.0	213.6	180.0	86.0

Discharge Data with Constant Power Units: Watts per cell (25°C ,77°F)

Type	End voltage per cell	5min	15min	30min	1h	2h	3h	5h	6h	8h	10h	24hour
Eos-200	1.60V	566.6	474.5	377.9	269.3	173.7	128.7	85.0	72.6	56.7	46.3	21.2
	1.70V	518.1	439.2	348.5	236.9	154.8	116.5	80.2	68.9	53.5	43.9	20.1
	1.75V	501.9	422.7	336.6	227.7	149.3	112.2	78.2	67.3	51.5	43.2	19.8
	1.80V	488.1	402.9	324.7	222.4	146.5	108.2	76.0	65.3	50.2	42.6	19.5
	1.85V	443.9	367.0	288.8	202.3	134.6	102.5	72.5	61.9	48.5	40.9	18.8
	1.90V	391.7	318.5	243.5	174.2	116.8	95.0	67.7	57.8	45.4	38.0	18.0
Eos-260	1.60V	736.6	616.9	491.2	350.1	225.9	167.3	110.5	94.4	73.8	60.2	27.6
	1.70V	673.5	571.0	453.0	308.0	201.2	151.4	104.2	89.6	69.5	57.1	26.2
	1.75V	652.5	549.5	437.6	296.0	194.1	145.9	101.7	87.5	66.9	56.2	25.8
	1.80V	634.5	523.8	422.1	289.1	190.5	140.7	98.8	84.9	65.2	55.3	25.4
	1.85V	577.0	477.0	375.4	263.0	175.0	133.2	94.2	80.4	63.1	53.2	24.4
	1.90V	509.2	414.0	316.6	226.5	151.9	123.6	88.0	75.2	59.0	49.3	23.4
Eos-300	1.60V	849.9	711.8	566.8	403.9	260.6	193.1	127.5	108.9	85.1	69.5	31.9
	1.70V	777.2	658.8	522.7	355.4	232.2	174.7	120.3	103.4	80.2	65.8	30.2
	1.75V	752.9	634.1	504.9	341.6	223.9	168.3	117.3	101.0	77.2	64.8	29.7
	1.80V	732.1	604.4	487.1	333.6	219.8	162.4	114.0	98.0	75.2	63.9	29.3
	1.85V	665.8	550.4	433.1	303.4	202.0	153.7	108.7	92.8	72.8	61.4	28.1
	1.90V	587.6	477.7	365.3	261.4	175.2	142.6	101.6	86.7	68.1	56.9	27.0
Eos-400	1.60V	1133.2	949.1	755.7	538.6	347.5	257.4	170.0	145.2	113.5	92.7	42.5
	1.70V	1036.2	878.5	697.0	473.9	309.5	233.0	160.4	137.8	106.9	87.8	40.2
	1.75V	1003.9	845.5	673.2	455.4	298.6	224.4	156.4	134.6	103.0	86.5	39.6
	1.80V	976.1	805.9	649.4	444.8	293.0	216.5	152.1	130.7	100.3	85.1	39.0
	1.85V	887.7	733.9	577.5	404.6	269.3	205.0	144.9	123.8	97.0	81.8	37.5
	1.90V	783.4	636.9	487.1	348.5	233.6	190.1	135.4	115.6	90.8	75.9	36.0
Eos-500	1.60V	1416.5	1186.4	944.6	673.2	434.4	321.8	212.5	181.5	141.9	115.8	53.1
	1.70V	1295.3	1098.1	871.2	592.4	386.9	291.2	200.5	172.3	133.7	109.7	50.3
	1.75V	1254.8	1056.8	841.5	569.3	373.2	280.5	195.5	168.3	128.7	108.1	49.5
	1.80V	1220.2	1007.3	811.8	556.1	366.3	270.6	190.1	163.4	125.4	106.4	48.8
	1.85V	1109.6	917.4	721.9	505.7	336.6	256.2	181.2	154.7	121.3	102.3	4