

# Eos

# Eos-500

The Eos range of VRLA batteries offers outstanding performance including a 15+ year design life and a cycle life in excess of 1200 cycles to 80% DOD. Built to the highest standards and compliant with the latest IEC60896-21/22 standard this range also offers 100% capacity out-of-the-box and is capable of handling deep discharges for complete peace of mind. The use of flexible connectors and several optional racking systems allows for multiple installation possibilities. This robust design uses the latest AGM technology to create a range that is suitable for many applications including both fixed and mobile telecoms, UPS, utilities and solar.



## Specifications

Battery Model	Eos-500			
Nominal Voltage	2V			
Capacity (25°C)	10HR (50A, 1.80V)	3HR (125A, 1.80V)		1HR (275A, 1.75V)
	500AH	375AH		275AH
Dimensions	Length	Width	Height	Total Height
	194.5mm	184.5mm	360.5mm	372mm
Approx. Weight	29.5kg			
Internal Resistance	Approx 0.33mΩ			
Max Charge Current Allowed	125A			
Charge Voltage (25°C)	Cycle use		Float use	
	2. 35V/cell		2. 25V/cell	
Temperature Ranges	Operation(maximum):		-40°C to 55°C (-40°F to 131°F)	
	Operation(recommended):		15°C to 25°C ( 59°F to 77°F)	
	Storage:		-20°C to 40°C (-4°F to 104°F)	
Terminal	M8 Female			
Terminal Hardware Torque	15 ± 1.0Nm			
Container Material	ABS (V0 optional)			

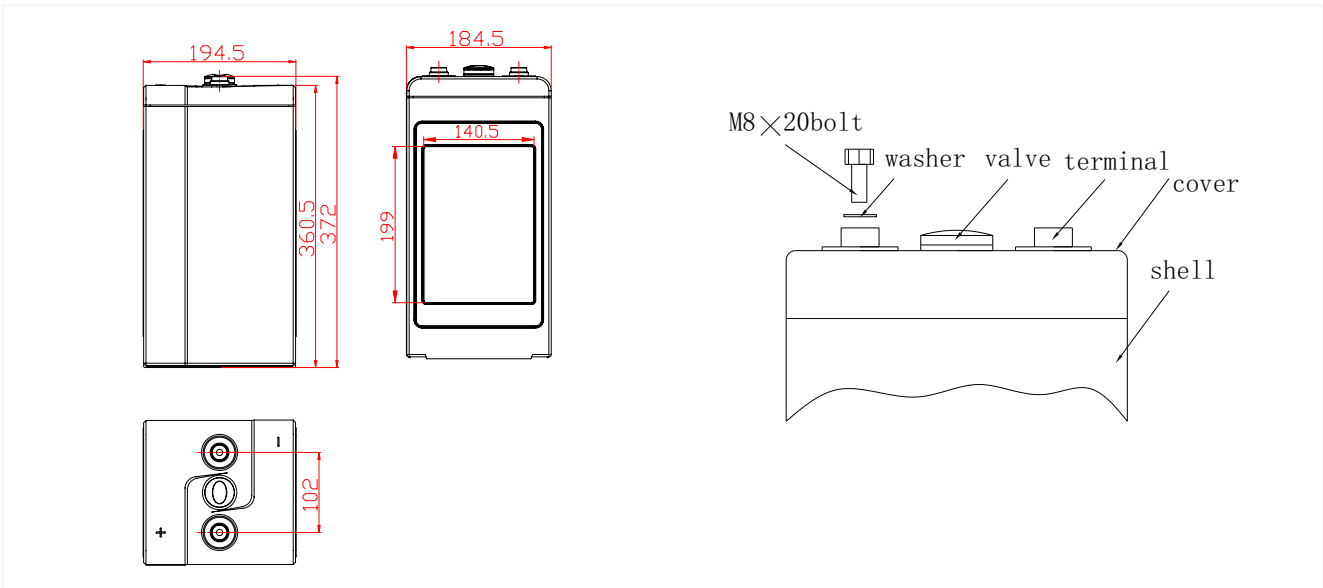
## Constant Current Discharge Data Units: Amperes (25°C, 77°F)

End Voltage	Time (minutes)				Time (hours)									
	5	15	30	45	1	2	3	4	5	6	8	10	12	24
1.60V	833	698	517	398	327	193	141	113	95.8	82.7	65.9	54.7	46.2	24.7
1.65V	770	651	495	381	310	188	138	110	93.5	81.6	65.0	54.2	45.7	24.6
1.70V	720	610	455	357	296	181	134	109	92.7	80.5	63.9	53.4	45.2	24.5
1.75V	686	578	423	341	282	175	130	106	90.1	79.2	63.1	52.6	44.6	24.2
1.80V	660	545	396	317	264	167	126	102	88.0	77.2	61.9	51.4	43.5	23.8
1.83V	613	511	377	301	248	160	122	100	85.9	75.8	60.8	50.3	42.8	23.3
1.85V	584	483	353	287	239	151	119	99.1	85.0	74.7	60.1	50.0	42.5	23.0
1.90V	502	408	303	248	212	142	112	94.5	81.9	72.0	57.8	48.3	41.3	22.5
1.94V	452	364	268	218	188	128	103	87.5	75.8	66.8	54.1	45.5	39.0	21.2

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

End Voltage	Time (minutes)				Time (hours)									
	5	15	30	45	1	2	3	4	5	6	8	10	12	24
1.60V	1417	1186	945	784	673	434	322	257	213	182	142	116	99.0	52.2
1.65V	1347	1139	893	732	622	398	302	243	205	176	137	113	96.5	51.5
1.70V	1295	1098	871	700	592	387	291	235	200	172	134	110	94.1	50.2
1.75V	1255	1057	842	675	569	373	281	230	196	168	129	108	92.4	49.9
1.80V	1220	1007	812	655	556	366	271	223	190	163	125	106	90.3	49.0
1.83V	1153	961	766	628	536	351	264	219	186	158	123	104	89.1	47.8
1.85V	1110	917	722	595	506	337	256	214	181	155	121	102	87.5	47.0
1.90V	979	796	609	499	436	292	238	199	169	145	113	94.9	82.1	44.1
1.94V	885	713	545	449	386	270	221	187	160	139	109	90.8	78.4	43.7

**Dimensions (mm)**



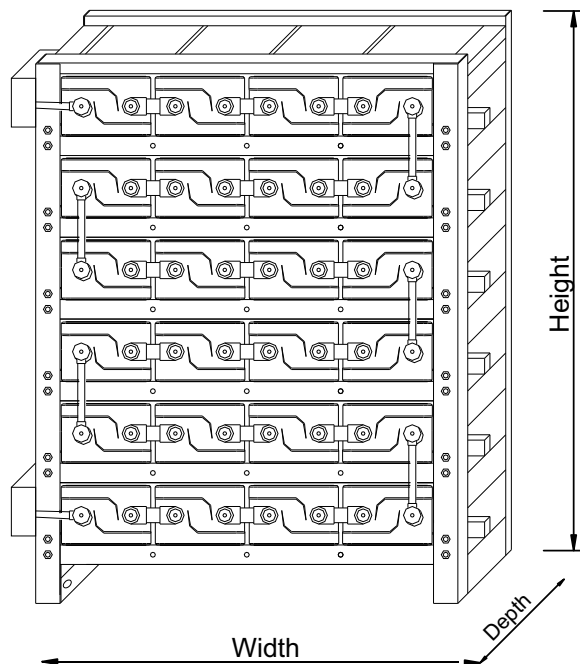
**Racking (optional)**

Narada racks are constructed using strong, easy to assemble, powder-coated steel tubing and come complete with sliding cover terminal (take-off) plates.

Cell model: Eos-500  
 Number of cells: 24  
 System Voltage: 48

Cell Configuration	4 high 6 wide	6 high 4 wide
Rack Width*	1255 mm	868 mm
Rack Depth	365 mm	365 mm
Rack Height	1080 mm	1570 mm
System Weight	773 kg	773 kg

\* Please allow 100mm for terminal boxes



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