

# Eos

# Eos-1200

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-1200			
Nominal Voltage	2V			
Capacity (25°C)	10HR (120A, 1.80V)	3HR (300A, 1.80V)	1HR (660A, 1.75V)	
	1200AH	900AH	660AH	
Dimensions	Length	Width	Height	Total Height
	225mm	229mm	555mm	566mm
Approx. Weight	75kg			
Internal Resistance	Approx 0.17mΩ			
Max Charge Current Allowed	300A			
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)			

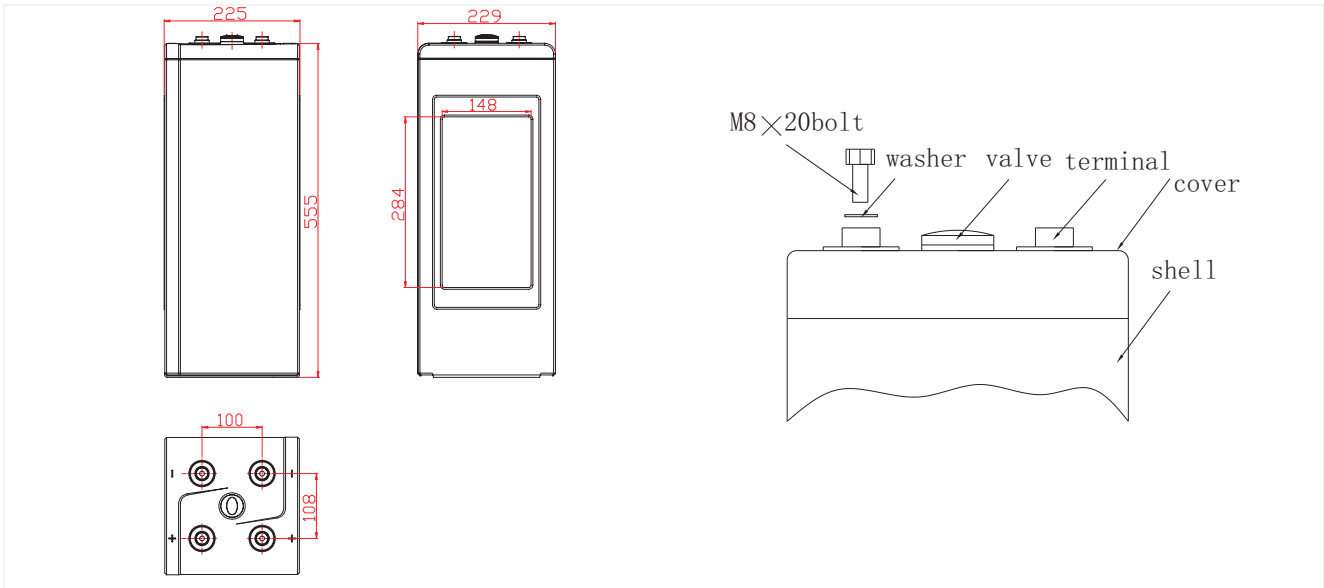
## Constant Current Discharge Data Units: Amperes (25°C, 77°F)

End Voltage	Time (minutes)				Time (hours)									
	5	15	30	45	1	2	3	4	5	6	8	10	12	24
1.60V	1737	1462	1188	936	783	481	353	278	231	199	156	129	110	59.8
1.65V	1629	1376	1083	868	739	467	344	274	228	197	154	128	109	58.9
1.70V	1531	1302	991	814	702	451	328	264	222	192	152	126	108	58.7
1.75V	1444	1226	914	767	663	435	321	259	219	189	150	125	108	58.2
1.80V	1365	1143	855	724	630	422	314	254	214	185	147	124	106	56.9
1.83V	1264	1052	798	685	594	404	304	247	210	183	146	123	105	56.9
1.85V	1172	972	752	638	556	380	288	235	200	175	141	119	102	55.3
1.90V	960	768	625	533	460	318	257	213	181	159	128	108	93.8	51.6
1.94V	864	698	574	483	413	284	220	185	159	141	115	98.0	83.9	45.9

## 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	2984	2510	2075	1739	1513	962	714	570	486	427	348	288	240	127
1.65V	2880	2432	1994	1666	1466	923	696	558	474	418	340	281	234	124
1.70V	2784	2368	1929	1608	1410	886	682	544	464	408	335	278	232	122
1.75V	2670	2266	1814	1507	1330	847	668	535	456	396	328	276	230	121
1.80V	2550	2136	1695	1405	1224	816	648	526	444	388	320	271	226	119
1.83V	2400	1998	1584	1309	1145	786	634	512	432	377	312	266	222	117
1.85V	2249	1866	1464	1200	1049	756	612	498	420	366	302	257	214	114
1.90V	1890	1512	1197	984	889	682	558	461	392	346	283	242	201	107
1.94V	1710	1382	1058	865	802	628	511	420	358	311	254	218	181	106

**Dimensions (mm)**



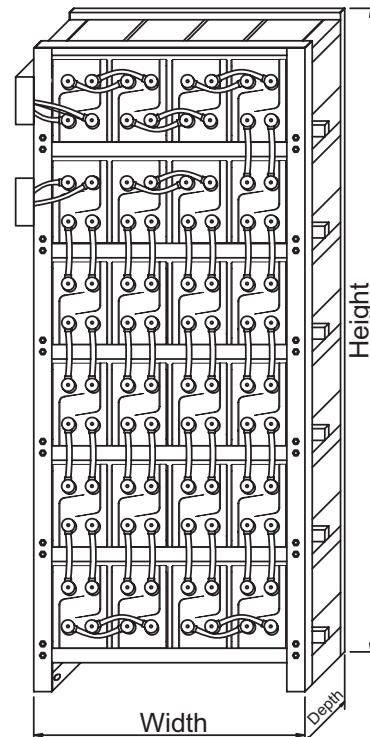
**Racking (optional)**

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-1200  
 Number of cells: 24  
 System Voltage: 48

Cell Configuration	2 high 12 wide	4 high 6 wide	6 high 4 wide
Rack Width*	3090 mm	1590 mm	1030 mm
Rack Depth	620 mm	620 mm	620 mm
Rack Height	660 mm	1220 mm	1780 mm
Rack Weight	1950 kg	1950 kg	1930 kg

\* Please allow 100mm for terminal boxes



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