

# AlphaCell™ SMU-M

Modular VRLA Battery



- Power range available in 2V from 200 to 3000Ah
- Modular unit structure allows for minimal footprint
- Insulated cell terminals allow easy maintenance and replacement
- Strong, corrosion-resistant grid design
- Rugged flame-retardant ABS casing to UL94-VO

The AlphaCell SMU-M range (modular) is designed for superior performance of high power output and excellent deep cycle life for energy applications.

## General Details

<b>Standard Warranty:</b>	2 Yr full
<b>Battery Type:</b>	Valve Regulated Lead Acid
<b>Range of Capacity:</b>	200 to 3000Ah
<b>Recommended Float Voltage:</b>	2.25VPC (3mV/°C) @ 25°C (77°F)
<b>Operating Temperature:</b>	25°C (77°F)
<b>Optional:</b>	UL 94 V0 Flame Retardant Casing

# AlphaCell SMU-M Specifications

11/2017

Battery Type	Nominal Capacity (Ah/10HR)	Dimensions L x W X H (in/mm)	Weight (lb/kg)	Terminal Type	Terminal Hardware Sizing
SMU-M2-200	200	3.7 x 7.3 14.7 / 95 x 185 x 372	31.5 / 14.3	Threaded Copper Insert	8.0mm diameter
SMU-M2-260	260	4.3 x 7.3 x 14.7 / 109 x 185 x 372	37.5 / 17.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-300	300	4.8 x 7.3 x 14.7 / 123 x 185 x 372	41.9 / 19.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-400	400	6.5 x 7.3 x 14.7 / 166 x 185 x 372	57.3 / 26.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-500	500	7.7 x 7.3 x 14.7 / 195 x 185 x 372	68.3 / 31.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-600	600	8.8 x 7.3 x 14.7 / 223 x 185 x 372	81.6 / 37.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-800	800	6.1 x 9.1 x 22.3 / 154 x 229 x 566	115 / 52.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-800A	800	11.0 x 7.3 x 14.7 / 280 x 185 x 372	104 / 47.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-1000	1000	7.3 x 9.1 x 22.3 / 186 x 229 x 566	137 / 62.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-1000A	1000	13.4 x 15.4 x 14.7 / 339 x 390 x 372	128 / 58.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-1200	1200	8.9 x 15.4 x 14.7 / 225 x 390 x 372	128 / 58.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-1250	1250	8.9 x 9.1 x 22.3 / 225 x 229 x 566	174 / 79.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-1500	1500	10.5 x 9.1 x 22.3 / 266 x 229 x 566	203 / 92.0	Threaded Copper Insert	8.0mm diameter
SMU-M2-2000	2000	13.7 x 9.2 x 22.3 / 349 x 223 x 566	267 / 121	Threaded Copper Insert	8.0mm diameter
SMU-M2-3000	3000	19.5 x 14.3 x 14.7 / 496 x 363 x 374	386 / 175	Threaded Copper Insert	8.0mm diameter

## Constant Current Discharge Ratings (Amperes @ 77°F/25°C to 1.80VPC)

Battery Type	Minutes			Hours								
	5	15	30	1	2	3	5	6	8	10	12	24
SMU-M2-200	264	218	158	106	66.9	50.3	35.2	30.9	24.8	20.6	17.4	9.33
SMU-M2-260	343	283	206	137	87.0	65.4	45.8	40.2	32.2	26.7	22.6	12.1
SMU-M2-300	396	327	238	159	100	75.4	52.8	46.3	37.1	30.8	26.1	14.0
SMU-M2-400	528	436	317	211	134	101	70.4	61.8	49.5	41.1	34.8	18.7
SMU-M2-500	660	545	396	264	167	126	88.0	77.2	61.9	51.4	43.5	23.3
SMU-M2-600	791	653	475	317	201	151	106	92.7	74.3	61.7	52.2	28.0
SMU-M2-800	910	762	570	420	281	209	142	124	98.2	82.4	70.9	38.0
SMU-M2-800A	912	764	571	421	282	210	143	124	98.4	82.5	71.0	38.1
SMU-M2-1000	1137	953	713	525	351	261	178	154	123	103	88.6	47.4
SMU-M2-1000A	1140	954	714	526	352	262	178	155	123	103	88.6	47.5
SMU-M2-1200	1365	1143	855	630	422	314	214	185	147	124	106	56.9
SMU-M2-1250	1380	1156	865	637	427	317	216	187	149	125	108	57.6
SMU-M2-1500	1706	1429	1069	787	527	392	267	232	184	154	133	71.2
SMU-M2-2000	2274	1905	1426	1049	703	523	356	309	246	206	177	94.9
SMU-M2-3000	3419	2863	2143	1577	1057	786	535	464	369	310	266	143

## Constant Power Discharge Ratings (Watts @ 77°F/25°C to 1.80VPC)

Battery Type	Minutes			Hours								
	5	15	30	1	2	3	5	6	8	10	12	24
SMU-M2-200	488	403	325	222	147	108	76.0	65.3	50.2	42.6	36.1	19.5
SMU-M2-260	634	524	422	289	190	141	98.8	84.9	65.2	55.3	47.0	25.4
SMU-M2-300	732	604	487	334	220	162	114	98.0	45.2	63.9	54.2	29.3
SMU-M2-400	976	806	649	445	293	216	152	131	100	85.1	72.3	39.0
SMU-M2-500	1220	1007	812	556	366	271	190	163	125	106	90.3	48.8
SMU-M2-600	1464	1209	974	667	440	325	228	196	150	128	108	58.5
SMU-M2-800	1683	1410	1119	808	539	428	293	256	211	179	151	80.5
SMU-M2-800A	1686	1413	1121	810	540	428	297	256	212	179	151	80.5
SMU-M2-1000	2104	1762	1398	1010	673	535	366	320	264	224	188	101
SMU-M2-1000A	2104	1762	1398	1010	673	535	366	320	264	224	188	101
SMU-M2-1200	2550	2136	1695	1224	816	648	444	388	320	271	226	119
SMU-M2-1250	2575	2157	1712	1236	824	654	448	391	324	274	228	120
SMU-M2-1500	3156	2643	2098	1515	1010	802	549	480	396	336	282	151
SMU-M2-2000	4208	3524	2797	2020	1346	1069	733	640	529	447	377	201
SMU-M2-3000	6312	5287	4196	3030	2020	1604	1099	959	793	671	565	302



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