

# Power

## AlphaCell™ SMU-M

Modular VRLA Battery



- Power ranges available: 2V from 200 to 3000AH
- Strong corrosion-resistant grid design
- Rugged flame-retardant ABS casing to UL94 - V0
- 20+ year design life
- 2-year, 100% full warranty
- Applications: UPS, medical equipment, control systems

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



## AlphaCell SMU-M

### General Specifications

<b>Standard Warranty:</b>	2 Yr full + 18 Yr prorated	<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 VO Flame Retardant Casing

Type	Nominal Capacity (Ah/10Hr)	Length (in/mm)	Width (in/mm)	Height (over Terminal) (in/mm)	Weight (lb/kg)	Terminal Type	Terminal Hardware Sizing
SMU-M2-200	200	3.7/95	7.3/185	14.7/372	31.5/14.3	Threaded Copper Insert	8.0mm diameter
SMU-M2-260	260	4.3/109	7.3/185	14.7/372	37.5/17.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-300	300	4.8/123	7.3/185	14.7/372	41.9/19.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-400	400	6.5/166	7.3/185	14.7/372	57.3/26.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-500	500	7.7/195	7.3/185	14.7/372	68.3/31.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-600	600	8.8/223	7.3/185	14.7/372	81.6/37.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-800	800	6.1/154	9.1/229	22.3/566	115/52.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-800A	800	11.0/280	7.3/185	14.7/372	104/47.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-1000	1000	7.3/186	9.1/229	22.3/566	137/62.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-1000A	1000	13.4/339	15.4/390	14.7/372	128/58.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-1200	1200	8.9/225	15.4/390	14.7/372	128/58.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-1250	1250	8.9/225	9.1/229	22.3/566	174/79.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-1500	1500	10.5/266	9.1/229	22.3/566	203/92.0	Threaded Copper Insert	8.0mm diameter
SMU-M 2-2000	2000	13.7/349	9.2/223	22.3/566	267/121	Threaded Copper Insert	8.0mm diameter
SMU-M 2-3000	3000	19.5/496	14.3/363	14.7/374	386/175	Threaded Copper Insert	8.0mm diameter


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

Battery	Minutes			Hours								
	5	15	30	1	2	3	5	6	8	10	12	24
SMU-M 2-200	264	218	158	106	66.9	50.3	35.2	30.9	24.8	20.6	17.4	9.33
SMU-M 2-260	343	283	206	137	87.0	65.4	45.8	40.2	32.2	26.7	22.6	12.1
SMU-M 2-300	396	327	238	159	100	75.4	52.8	46.3	37.1	30.8	26.1	14.0
SMU-M 2-400	528	436	317	211	134	101	70.4	61.8	49.5	41.1	34.8	18.7
SMU-M 2-500	660	545	396	264	167	126	88.0	77.2	61.9	51.4	43.5	23.3
SMU-M 2-600	791	653	475	317	201	151	106	92.7	74.3	61.7	52.2	28.0
SMU-M 2-800	910	762	570	420	281	209	142	124	98.2	82.4	70.9	38.0
SMU-M 2-800A	912	764	571	421	282	210	143	124	98.4	82.5	71.0	38.1
SMU-M 2-1000	1137	953	713	525	351	261	178	154	123	103	88.6	47.4
SMU-M 2-1000A	1140	954	714	526	352	262	178	155	123	103	88.8	47.5
SMU-M 2-1200	1365	1143	855	630	422	314	214	185	147	124	106	56.9
SMU-M 2-1250	1380	1156	865	637	427	317	216	187	149	125	108	57.6
SMU-M 2-1500	1706	1429	1069	787	527	392	267	232	184	154	133	71.2
SMU-M 2-2000	2274	1905	1426	1049	703	523	356	309	246	206	177	94.9
SMU-M 2-3000	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	Minutes			Hours								
	5	15	30	1	2	3	5	6	8	10	12	24
SMU-M 2-200	488	403	325	222	147	108	76.0	65.3	50.2	42.6	36.1	19.5
SMU-M 2-260	634	524	422	289	190	141	98.8	84.9	65.2	55.3	47.0	25.4
SMU-M 2-300	732	604	487	334	220	162	114	98.0	75.2	63.9	54.2	29.3
SMU-M 2-400	976	806	649	445	293	216	152	131	100	85.1	72.3	39.0
SMU-M 2-500	1220	1007	812	556	366	271	190	163	125	106	90.3	48.8
SMU-M 2-600	1464	1209	974	667	440	325	228	196	150	128	108	58.5
SMU-M 2-800	1683	1410	1119	808	539	428	293	256	211	179	151	80.5
SMU-M 2-800A	1686	1413	1121	810	540	428	294	256	212	179	151	80.5
SMU-M 2-1000	2104	1762	1398	1010	673	535	366	320	264	224	188	101
SMU-M 2-1000A	2104	1762	1398	1010	673	535	366	320	264	224	188	101
SMU-M 2-1200	2550	2136	1695	1224	816	648	444	388	320	271	226	119
SMU-M 2-1250	2575	2157	1712	1236	824	654	448	391	324	274	228	120
SMU-M 2-1500	3156	2643	2098	1515	1010	802	549	480	396	336	282	151
SMU-M 2-2000	4208	3524	2797	2020	1346	1069	733	640	529	447	377	201
SMU-M 2-3000	6312	5287	4196	3030	2020	1604	1099	959	793	671	565	302

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