

Power

AlphaCell™ SMU-C

Deep Cycle VRLA Battery



- Power ranges available: 6V from 4.5 to 12AH; 12V from 4.5 to 200AH
- Strong corrosion-resistant grid design
- Rugged flame-retardant ABS casing to UL94 - V0
- 10+ year design life
- 3-year, 100% full warranty
- Applications: UPS, medical equipment, control systems

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

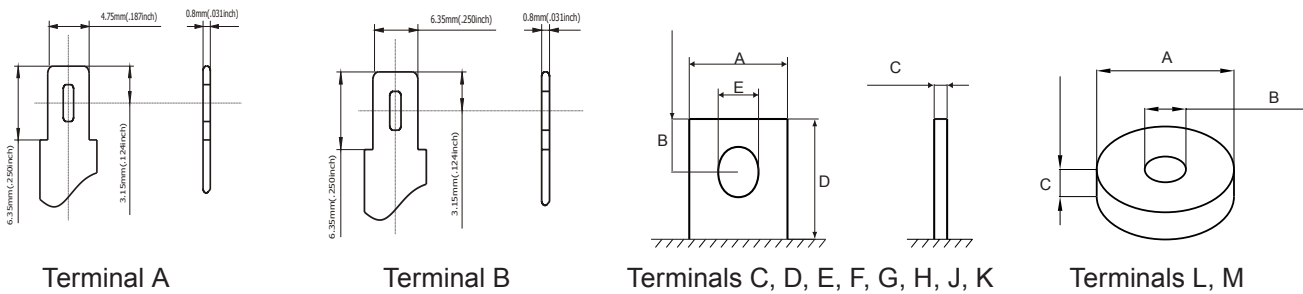
General Specifications

Model:	Alpha Cell SMU-C 6V & 12V	Range of Capacity:	4.5 to 200 AH
Standard Warranty:	3 Yr full plus 7 Yr prorated	Recommended float Voltage:	6V = 6.8 - 6.9V (-10mV/°C)
Battery Type:	Valve regulated lead acid	Operating Temperature:	12V = 13.6 - 13.8V (-20mV/°C) 25°C (77°F)

Mechanical Specifications

Model	Nominal Voltage (V)	Nominal Capacity (20hr) (AH)	Length (in/mm)	Width (in/mm)	Height (over terminal) (in/mm)	Weight (Approx.) (lbs/kg)	Terminal
SMU-C 6-4.5	6	4.5	2.8/70	1.9/47	4.2/107	1.8/0.83	A
SMU-C 6-7	6	8	5.9/151	1.3/34	3.9/100	3.0/1.4	A
SMU-C 6-12	6	13.2	5.9/151	2.0/50	3.9/100	4.2/1.9	A
SMU-C 12-4.5	12	4.5	3.5/90	2.8/70	4.2/107	3.7/1.7	A
SMU-C 12-7	12	8	5.9/151	2.6/65	4.0/101	5.6/2.55	A
SMU-C 12-12	12	13.2	5.9/151	3.9/98	4.0/101	8.8/4.0	B
SMU-C 12-14	12	14	5.9/151	3.9/98	4.0/101	9.3/4.2	B
SMU-C 12-18	12	20	7.1/181	3.0/77	6.6/167	13.2/6.0	C
SMU-C 12-26	12	28	6.9/175	6.5/166	4.9/125	19.6/8.9	C
SMU-C 12-28	12	28	6.5/165	5.0/126	7.2/182	18.7/8.5	C
SMU-C 12-30	12	30	6.6/167	5.0/126	6.9/176	22.5/10.2	C
SMU-C 12-35	12	35	7.7/195	5.1/130	7.1/180	23.2/10.5	D
SMU-C 12-40	12	41	7.8/197	6.5/165	6.7/170	30.2/13.7	E
SMU-C 12-55	12	56	9.0/229	5.4/138	9.0/228	37.5/17.0	F
SMU-C 12-65	12	66	14.0/355	6.6/168	7.2/183	50.0/22.7	G
SMU-C 12-75	12	76	10.2/258	6.6/168	8.9/226	50.7/23.0	F
SMU-C 12-90	12	92	12.0/305	6.6/168	8.9/226	63.7/28.9	F
SMU-C 12-100	12	102	13.0/330	6.8/172	8.7/221	68.3/31.0	L
SMU-C 12-120	12	122	15.9/405	6.9/175	9.3/235	83.8/38.0	H
SMU-C 12-134	12	136	13.3/338	6.8/172	11.3/288	93.7/42.5	M
SMU-C 12-150	12	154	19.1/485	6.8/172	9.5/240	99.2/45.0	J
SMU-C 12-200	12	202	20.6/522	9.4/238	9.3/236	134.5/61.0	K

Terminal Configurations



Terminal Type	A (in/mm)	B (in/mm)	C (in/mm)	D (in/mm)	E (in/mm)
C	0.55/14	0.2/5	0.08/2	0.39/12	0.22/5.5
D	0.59/15	0.31/8	0.20/5	0.71/18	0.22/5.5
E	0.65/16.5	0.31/8	0.33/8.5	0.59/15	0.25/6.4
F	0.71/18	0.39/9.9	0.52/13.2	0.75/19	0.31/7.8
G	0.71/18	0.35/9	0.28/7	0.79/20	0.26/6.5
H	1.02/26	0.43/11	0.30/7.7	0.79/20	0.35/8.8
J	1.02/26	0.35/9	0.33/8.4	0.71/18	0.34/8.7
K	1.02/26	0.47/12	0.33/8.4	0.94/24	0.37/9.5
L	0.79/20	0.24/6	0.20/5	-	-
M	0.79/20	0.31/8	0.20/5	-	-

Constant Current Discharge Ratings (Amperes @ 77°F/25°C to 1.75VPC)

Battery	Minutes				Hours				
	5	10	15	30	1	3	5	10	20
SMU-C 6-4.5	14.8	9.69	7.5	4.16	2.92	1.22	0.80	0.46	0.23
SMU-C 6-7	32.9	21.5	16.6	9.22	5.18	2.17	1.43	0.82	0.42
SMU-C 6-12	54.8	35.8	27.7	15.4	8.55	3.57	2.36	1.35	0.69
SMU-C 12-4.5	14.8	9.69	7.5	4.16	2.92	1.22	0.80	0.46	0.23
SMU-C 12-7	32.9	21.5	16.6	9.22	5.18	2.17	1.43	0.82	0.42
SMU-C 12-12	54.8	35.8	27.7	15.4	8.55	3.57	2.36	1.35	0.69
SMU-C 12-14	56.8	37.1	28.7	15.9	8.94	3.74	2.47	1.41	0.72
SMU-C 12-18	74.7	48.8	37.8	21.0	13.0	5.41	3.57	2.04	1.04
SMU-C 12-26	99.6	65.1	50.4	27.9	18.1	7.58	5.00	2.86	1.45
SMU-C 12-28	99.6	65.1	50.4	27.9	18.1	7.58	5.00	2.86	1.45
SMU-C 12-30	99.6	65.1	50.4	27.9	19.4	8.12	5.36	3.06	1.56
SMU-C 12-35	139	91.2	70.6	39.1	22.7	9.47	6.25	3.57	1.82
SMU-C 12-40	154	101	78.2	43.3	25.9	10.8	7.15	4.08	2.08
SMU-C 12-55	199	130	101	55.9	36.3	15.2	10.0	5.61	2.85
SMU-C 12-65	234	153	118	65.7	42.8	17.9	11.8	6.74	3.43
SMU-C 12-75	269	176	136	75.4	49.2	20.6	13.6	7.76	3.94
SMU-C 12-90	309	202	156	86.6	59.6	24.9	16.4	9.39	4.78
SMU-C 12-100	369	241	187	103	66.1	27.6	18.2	10.4	5.29
SMU-C 12-120	443	290	224	124	79.1	33.0	21.8	12.4	6.33
SMU-C 12-134	356	261	208	131	87.1	36.2	25.2	13.6	7.00
SMU-C 12-150	553	361	280	155	99.8	41.7	27.5	15.7	7.99
SMU-C 12-200	532	390	310	196	130	54.0	37.5	20.4	10.5

Constant Power Discharge Ratings (Watts @ 77°F/25°C to 1.75VPC)

Battery	Minutes				Hours				
	5	10	15	30	1	3	5	10	20
SMU-C 6-4.5	28.2	19.0	14.6	8.06	5.53	2.25	1.41	0.92	0.47
SMU-C 6-7	62.6	42.2	32.4	17.9	9.83	4.00	2.51	1.66	0.83
SMU-C 6-12	104	70.3	54.1	29.8	16.6	6.60	4.14	2.73	1.37
SMU-C 12-4.5	28.0	19.0	14.6	8.06	5.53	2.25	1.41	0.92	0.47
SMU-C 12-7	62.2	42.2	32.4	17.9	9.83	4.00	2.51	1.66	0.83
SMU-C 12-12	104	70.3	54.1	29.8	16.2	6.60	4.14	2.74	1.37
SMU-C 12-14	107	72.8	56.0	30.9	17.0	6.90	4.33	2.87	1.44
SMU-C 12-18	141	95.8	73.7	40.7	24.6	10.0	6.28	4.16	2.08
SMU-C 12-26	188	128	98.3	54.2	34.4	14.0	8.79	5.74	2.91
SMU-C 12-28	188	128	98.3	54.2	34.4	14.0	8.79	5.74	2.91
SMU-C 12-30	188	128	98.3	54.2	36.9	15.0	9.42	6.24	3.12
SMU-C 12-35	264	179	138	75.9	43.0	17.5	11.0	7.28	3.64
SMU-C 12-40	292	198	152	84.0	49.2	20.0	12.6	8.32	4.16
SMU-C 12-55	377	255	197	108	68.8	28.0	17.6	11.3	5.70
SMU-C 12-65	443	300	231	127	81.1	33.0	20.7	13.5	6.76
SMU-C 12-75	502	345	265	146	93.4	38.0	23.9	15.6	7.90
SMU-C 12-90	584	396	305	168	113	46.0	28.9	19.1	9.57
SMU-C 12-100	697	473	364	201	125	51.0	32.0	21.2	10.6
SMU-C 12-120	838	568	438	241	150	61.0	38.3	25.1	12.7
SMU-C 12-134	638	480	381	247	163	69.1	48.4	27.3	14.0
SMU-C 12-150	1045	709	546	301	189	77.0	48.3	31.4	16.0
SMU-C 12-200	952	716	568	368	243	103	72.2	40.7	20.9

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