

Power

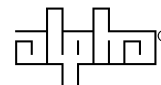
AlphaCell™ SMU-HR

High Rate Discharge VRLA Battery



- Power range available in 12V from 9 to 150Ah
- Optimized grid for high power density
- Upright, side or end mounting
- Thermally welded case to cover bond eliminates leakage
- Optional flame retardant ABS casing to UL94-VO
- 10 year design life
- 1 year — 100% full warranty

The AlphaCell SMU-HR, with Absorbed Glass Mat (AGM) technology, is a high discharge rate VRLA battery specifically designed for UPS, power generation, and switchgear applications. Low calcium grid alloy reduces gassing to extend life. This high rate discharge cycle battery is available in 12V ranging from 9 to 150Ah.



AlphaCell SMU-HR

General Specifications

Standard Warranty:	1 yr full
Battery Type:	Valve Regulated Lead Acid
Range of Capacity:	9 to 150Ah
Recommended Float Voltage:	13.5VPC @ 20°C (68°F)
Operating Temperature:	25°C (77°F)
Terminal Type:	Threaded Copper Insert
Optional:	UL 94 VO Flame Retardent Casing

Mechanical Specifications

Type	Length (in/mm)	Width (in/mm)	Height (in/mm)	Weight (lb/kg)	Stud hole size
SMU-HR 12-9:	5.9/151	2.6/65	3.75/95	5.9/2.7	snap on
SMU-HR 12-18:	7.1/181	3.0/77	6.6/167	13.2/6.0	5.5mm
SMU-HR 12-26:	6.9/166	6.5/166	4.9/125	19.6/8.9	5.5mm
SMU-HR 12-35:	7.8/197	5.2/132	6.8/172	27.5/12.5	9.8mm
SMU-HR 12-40:	7.8/197	6.5/165	6.7/170	30.8/14	5.5mm
SMU-HR 12-55:	9.0/228	5.5/139	7.9/201	38.5/17.5	5.5mm
SMU-HR 12-75:	10.3/261	6.8/173	7.9/201	57.2/26	5.5mm
SMU-HR 12-90:	12.0/305	6.6/168	8.2/208	63.6/28.9	5.5mm
SMU-HR 12-100:	13.4/341	6.8/173	8.4/213	74.8/34	5.5mm
SMU-HR 12-134:	13.4/341	6.8/172	11.1/282	92.4/42	5.5mm
SMU-HR 12-150:	13.4/341	6.8/172	11.1/282	99/45	5.5mm

Amps to 1.75 Final Volts Per Cell at 25°C (77°F)

Type	Minutes				Hours					
	5	10	15	30	1	3	5	8	10	20
SMU-HR 12-9:	34.90	22.80	17.60	9.78	5.18	2.17	1.43	0.95	0.81	0.42
SMU-HR 12-18:	74.70	48.80	37.80	21.00	13.00	5.41	3.57	2.39	2.04	1.04
SMU-HR 12-22:	79.70	52.10	40.30	22.40	14.30	5.95	3.93	2.63	2.25	1.14
SMU-HR 12-26:	99.60	65.10	50.40	27.90	17.50	7.31	4.82	3.23	2.76	1.40
SMU-HR 12-35:	139.00	91.20	70.60	39.10	21.40	8.93	5.90	3.95	3.37	1.71
SMU-HR 12-40:	159.00	104.00	80.70	44.70	25.90	10.80	7.15	4.78	4.08	2.08
SMU-HR 12-55:	172.00	121.00	88.80	60.00	38.50	15.30	9.70	6.23	5.12	2.68
SMU-HR 12-75:	190.00	135.00	103.00	76.00	49.00	23.00	14.40	9.06	7.30	3.83
SMU-HR 12-90:	309.0	202.0	156.0	86.6	58.3	24.4	16.1	10.8	9.2	4.7
SMU-HR 12-100:	275.00	212.00	170.00	112.00	72.00	29.00	18.50	11.90	9.80	5.14
SMU-HR 12-134:	321.6	242.1	216.2	142.9	78.9	32.4	20.9	15.4	12.5	-
SMU-HR 12-150:	360.0	271.0	242.0	160.0	88.3	36.3	23.4	16.5	13.4	-

Amperes to 1.80 Final Volts Per Cell at 25°C (77°F)

Type	Minutes				Hours					
	5	10	15	30	1	3	5	8	10	20
SMU-HR 12-9:	31.20	21.80	16.00	9.06	4.85	2.08	1.34	0.92	0.80	0.40
SMU-HR 12-18:	66.90	46.60	34.30	19.40	12.10	5.20	3.36	2.30	2.00	1.01
SMU-HR 12-22:	71.30	49.70	36.60	20.70	13.30	5.72	3.70	2.53	2.20	1.11
SMU-HR 12-26:	89.10	62.20	45.80	25.90	16.40	7.02	4.54	3.11	2.70	1.36
SMU-HR 12-35:	125.00	87.10	64.10	36.20	20.00	8.58	5.54	3.79	3.30	1.67
SMU-HR 12-40:	143.00	99.50	73.30	41.40	24.30	10.40	6.72	4.60	4.00	2.02
SMU-HR 12-55:	163.00	117.00	88.00	58.70	37.50	15.30	9.70	6.13	4.96	2.60
SMU-HR 12-75:	188.00	135.00	103.00	75.00	47.00	22.50	14.00	8.88	7.20	3.78
SMU-HR 12-90:	276.0	193.0	142.0	80.2	54.6	23.4	15.1	10.3	9.0	4.6
SMU-HR 12-100:	250.00	208.00	168.00	110.00	70.00	28.50	18.30	11.80	9.70	5.09
SMU-HR 12-120:	397.00	277.00	204.00	115.00	82.50	35.40	22.80	15.63	13.60	6.87
SMU-HR 12-134:	289.4	227.8	209.0	138.5	75.9	31.5	20.5	15.4	12.5	-
SMU-HR 12-150:	324.0	255.0	234.0	155.0	85.0	35.3	23.0	16.5	13.4	-

For more information visit www.alpha.com

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