

Motion+ Charger Ultimate

Technical data sheet

Technical features

- Very high energy efficiency due to advanced HF technology small CO₂ footprint
- Small and smart – requires less installation space than conventional chargers
- Easy to use – crisp display with clear pictograms and simple text
- Automatic start “plug & play” – always keep your batteries powered
- Ready for Motion+ Fleet management system offering vigorous monitoring and easy energy management
- Large variety of accessories available: air agitation, safety disconnect, temperature probe, automatic watering system, and many others
- Offers Exides premium charging profiles: Low load on the mains and yet low charging time

Standards & certifications:

- 2014/35/EU (Low Voltage Directive)
- 2014/30/EU (Electro Magnetic Compatibility (EMC))
- EN 60335-1: (2012), EN 60335-2-29: (2010)
- EN IEC 61000-6-2:2005, EN IEC 61000-6-4:2006
- AS/NZS 61000-6-4, AS/NZS 60335-1, AS/NZS 60335-2-29
- European Union Directive 2011/65/EU & 2015/863/EU (RoHS Directive)

Technical characteristics and data

Cubicle	H1	H2	H3	DP (Dustproof)	WP (Weatherproof)
Input voltage	1PH – 230VAC ± 10 % 3PH – 400VAC ± 10 % (4 wire. 3PH & Earth)				
Input current	See specific model	See specific model	See specific model	See specific model	See specific model +2 A
Input frequency	45-66 Hz				
Input cable	2 meters of flexible PVC cable to BS6500				
Input protection	32 mm Type F fuse, fitted on the power module's input PCB				
Output voltages	24, 36, 48, 72 & 80V only				
Output cable	3 meters of coil lead heat and oil resistant & flame retardant cable to BS6195				
Output protection	LET type, fitted on the output PCB				
Charge characteristics	Software controlled output, multi-profile				
User interface	Graphic LCD with 6 LED's and 5 push buttons				
Cooling	Thermostatically controlled fan(s)				
Ventilation	Forced cooling, rear intake front exhaust Chargers can be placed next to each other, but the vents must not be blocked				
Filtration rating	NA	NA	NA	MERV 8	NA
Heating	Not applicable				Controlled by thermostat/hydrostat
Humidity	Maximum relative humidity 95 %, non-condensing				Managed by hydrostat and heaters
Ambient operating temperature	0 to 35 °C	0 to 35 °C	0 to 35 °C	0 to 40 °C	-20 to 40 °C
IP rating	IP21	IP21	IP21	IP51	IP54
Environment	Indoor use only dry well ventilated				Outside/Inside use
Cubicle dimensions (mm)	413 x 369 x 515 (WxDxH)	487 x 590 x 745 (WxDxH)	935 x 655 x 759 (WxDxH)	530 x 680 x 933 (WxDxH)	530 x 715 x 933 (WxDxH)
Weight (kg)	24 to 27	60 to 66	122 to 220	100 to 113	105 to 118

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24V charger selection table

Battery technology	Flooded			Gel cells PzV	
Charge curve/profile recharge time (h)*:	S & L = 12 G & H = 11	S & L = 8 G & H = 7	R = 6	D = 12-14	

Charger model		Capacity range, C _s rated Ah							
Voltage	Current	min	max	min	max	min	max	min	max

24	20	189	250	141	175	61	80	130	167
24	25	251	304	176	210	81	100	167	208
24	30	305	375	211	250	101	120	200	250
24	35	376	416	251	281	121	140	233	292
24	40	417	471	282	320	141	160	267	333
24	45	472	527	321	360	161	180	300	375
24	50	528	582	361	400	181	200	333	417
24	55	583	638	401	440	201	220	367	458
24	60	639	700	441	500	221	240	400	500
24	65	701	749	501	518	241	260	433	542
24	70	750	804	519	557	261	280	467	583
24	75	805	860	558	595	281	300	500	625
24	80	861	916	596	634	301	320	533	667
24	85	917	971	635	672	321	340	567	708
24	90	972	1027	673	711	341	360	600	750
24	95	1028	1082	712	749	361	380	633	792
24	100	1083	1166	750	800	381	400	667	833
24	110	1167	1277	801	880	401	440	733	917
24	120	1278	1388	881	960	441	480	800	1000
24	130	1389	1499	961	1038	481	520	867	1083
24	140	1500	1610	1039	1115	521	560	933	1167
24	150	1611	1721	1116	1192	561	600	1000	1250
24	160	1722	1832	1193	1268	601	640	1067	1333
24	170	1833	1943	1269	1345	641	680	1133	1417
24	180	1944	2054	1346	1422	681	720	1200	1500
24	190	2055	2166	1423	1499	721	760	1267	1583
24	200	2167	2277	1500	1600	761	800	1333	1667
24	210	2278	2388	1601	1680	801	840	1400	1750
24	220	2389	2499	1681	1760	841	880	1467	1833
24	230	2500	2610	1761	1840	881	920	1533	1917
24	240	2611	2721	1841	1920	921	960	1600	2000
24	250	2722	2832	1921	2000	961	1000	1667	2083
24	260	2833	2943	2001	2080	1001	1040	1733	2167
24	270	2944	3054	2081	2160	1041	1080	1800	2250
24	280	3055	3166	2161	2240	1081	1120	1867	2333
24	290	3167	3277	2241	2320	1121	1160	1933	2417
24	300	3278	3388	2321	2400	1161	1200	2000	2500
24	310	3389	3499	2401	2480	1201	1240	2067	2583
24	320	3500	3610	2481	2560	1241	1280	2133	2667
24	330	3611	3721	2561	2640	1281	1320	2200	2750
24	340	3722	3832	2641	2720	1321	1360	2267	2833
24	350	3833	3943	2721	2800	1361	1400	2333	2917
24	360	3944	4054	2801	2880	1401	1440	2400	3000
24	370	4055	4166	2881	2960	1441	1480	2467	3083
24	380	4167	4277	2961	3040	1481	1520	2533	3167
24	390	4278	4388	3041	3120	1521	1560	2600	3250
24	400	4389	4499	3121	3200	1561	1600	2667	3333
24	410	4500	4610	3201	3280	1601	1640	2733	3417
24	420	4611	4721	3281	3360	1641	1680	2800	3500
24	430	4722	4832	3361	3440	1681	1720	2867	3583
24	440	4833	4943	3441	3520	1721	1760	2933	3667
24	450	4944	5054	3521	3600	1761	1800	3000	3750
24	460	5055	5166	3601	3680	1801	1840	3067	3833
24	470	5167	5277	3681	3760	1841	1880	3133	3917
24	480	5278	5388	3761	3840	1881	1920	3200	4000
24	490	5389	5499	3841	3920	1921	1960	3267	4083
24	500	5500	5610	3921	4000	1961	2000	3333	4167
24	510	5611	5721	4001	4080	2001	2040	3400	4250
24	520	5722	5832	4081	4160	2041	2080	3467	4333
24	530	5833	5943	4161	4240	2081	2120	3533	4417
24	540	5944	6054	4241	4320	2121	2160	3600	4500
24	550	6055	6166	4321	4400	2161	2200	3667	4583
24	560	6167	6277	4401	4480	2201	2240	3733	4667
24	570	6278	6388	4481	4560	2241	2280	3800	4750
24	580	6389	6499	4561	4640	2281	2320	3867	4833
24	590	6500	6610	4641	4720	2321	2360	3933	4917
24	600	6611	6721	4721	4800	2361	2400	4000	5000

* Recharge time +/- 5%

Charge curve/ profile:

S = Vented Material Handling Essential, L = Vented Material Handling Premium,
G = Vented Material Handling Essential (Air), H = Vented Material Handling Premium (Air),
R = Vented Material Handling Essential (Rapid), D = Gel Sonnenschein

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MOTION⁺
CHARGER

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A NEW
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Motion+ Charger Ultimate

Technical data sheet

36V charger selection table

Battery technology		Flooded						Gel cells PzV		Single phase			Three phase		
Charge curve/profile recharge time (h)*:		S & L = 12 G & H = 11		S & L = 8 G & H = 7		R = 6		D = 12-14		Input current @230V +/- 10 %	Cubicle size	Weight	Input current @400V +/- 10 %	Cubicle size	Weight
Charger model		Capacity range, C _s rated Ah													
Voltage	Current	min	max	min	max	min	max	min	max			kg			
36	20	189	250	141	175	61	80	130	167	4.4	H1	25	1.6	H1	24
36	25	251	304	176	210	81	100	167	208	5.5	H1	25	2.0	H1	24
36	30	305	375	211	250	101	120	200	250	6.6	H1	25	2.4	H1	24
36	35	376	416	251	281	121	140	233	292	7.7	H1	25	2.8	H1	24
36	40	417	471	282	320	141	160	267	333	8.8	H1	25	3.2	H1	24
36	45	472	527	321	360	161	180	300	375	9.9	H1	25	3.6	H1	24
36	50	528	582	361	400	181	200	333	417	11.0	H1	25	4.0	H1	24
36	55	583	638	401	440	201	220	367	458	12.1	H1	25	4.4	H1	24
36	60	639	700	441	500	221	240	400	500	13.2	H1	25	4.8	H1	24
36	65	701	749	501	518	241	260	433	542	14.3	H1	25	5.2	H1	24
36	70	750	804	519	557	261	280	467	583	15.4	H2	61	5.6	H1	24
36	75	805	860	558	595	281	300	500	625	16.6	H2	61	6.0	H1	24
36	80	861	916	596	634	301	320	533	667	17.7	H2	61	6.4	H1	24
36	85	917	971	635	672	321	340	567	708	18.8	H2	61	6.8	H1	24
36	90	972	1027	673	711	341	360	600	750	19.9	H2	61	7.2	H1	24
36	95	1028	1082	712	749	361	380	633	792	21.0	H2	61	7.6	H1	24
36	100	1083	1166	750	800	381	400	667	833	22.1	H2	61	8.0	H1	24
36	110	1167	1277	801	880	401	440	733	917	24.3	H2	61	8.8	H1	26
36	120	1278	1388	881	960	441	480	800	1000	26.5	H2	61	9.6	H1	26
36	130	1389	1499	961	1038	481	520	867	1083	28.7	H2	61	10.4	H1	26
36	140	1500	1610	1039	1115	521	560	933	1167	30.9	H3	122	11.2	H1	26
36	150	1611	1721	1116	1192	561	600	1000	1250	33.1	H3	122	11.9	H1	26
36	160	1722	1832	1193	1268	601	640	1067	1333	35.3	H3	122	12.7	H2	64
36	170	1833	1943	1269	1345	641	680	1133	1417	37.5	H3	122	13.5	H2	64
36	180	1944	2054	1346	1422	681	720	1200	1500	39.7	H3	122	14.3	H2	64
36	190	2055	2166	1423	1499	721	760	1267	1583	41.9	H3	122	15.1	H2	64
36	200	2167	2277	1500	1600	761	800	1333	1667	44.1	H3	220	15.9	H2	64
36	210	2278	2388	1601	1680	801	840	1400	1750	46.3	H3	220	16.7	H2	64
36	220	2389	2499	1681	1760	841	880	1467	1833	48.6	H3	220	17.5	H2	64
36	230	2500	2610	1761	1840	881	920	1533	1917	50.8	H3	220	18.3	H2	64
36	240	2611	2721	1841	1920	921	960	1600	2000	53.0	H3	220	19.1	H2	64
36	250	2722	2832	1921	2000	961	1000	1667	2083	55.2	H3	220	19.9	H2	64
36	260	2833	2943	2001	2080	1001	1040	1733	2167	57.4	H3	220	20.7	H2	64
36	270	2944	3054	2081	2160	1041	1080	1800	2250				21.5	H2	64
36	280	3055	3166	2161	2240	1081	1120	1867	2333				22.3	H2	64
36	290	3167	3277	2241	2320	1121	1160	1933	2417				23.1	H2	64
36	300	3278	3388	2321	2400	1161	1200	2000	2500				23.9	H2	64
36	310	3389	3499	2401	2480	1201	1240	2067	2583				24.7	H3	122
36	320	3500	3610	2481	2560	1241	1280	2133	2667				25.5	H3	122
36	330	3611	3721	2561	2640	1281	1320	2200	2750				26.3	H3	122
36	340	3722	3832	2641	2720	1321	1360	2267	2833				27.1	H3	122
36	350	3833	3943	2721	2800	1361	1400	2333	2917				27.9	H3	122
36	360	3944	4054	2801	2880	1401	1440	2400	3000				28.7	H3	122
36	370	4055	4166	2881	2960	1441	1480	2467	3083				29.5	H3	122
36	380	4167	4277	2961	3040	1481	1520	2533	3167				30.3	H3	122
36	390	4278	4388	3041	3120	1521	1560	2600	3250				31.1	H3	122
36	400	4389	4499	3121	3200	1561	1600	2667	3333				31.9	H3	122
36	410	4500	4610	3201	3280	1601	1640	2733	3417				32.7	H3	122
36	420	4611	4721	3281	3360	1641	1680	2800	3500				33.5	H3	122
36	430	4722	4832	3361	3440	1681	1720	2867	3583				34.2	H3	122
36	440	4833	4943	3441	3520	1721	1760	2933	3667				35.0	H3	122
36	450	4944	5054	3521	3600	1761	1800	3000	3750				35.8	H3	122
36	460	5055	5166	3601	3680	1801	1840	3067	3833				36.6	H3	220
36	470	5167	5277	3681	3760	1841	1880	3133	3917				37.4	H3	220
36	480	5278	5388	3761	3840	1881	1920	3200	4000				38.2	H3	220
36	490	5389	5499	3841	3920	1921	1960	3267	4083				39.0	H3	220
36	500	5500	5610	3921	4000	1961	2000	3333	4167				39.8	H3	220
36	510	5611	5721	4001	4080	2001	2040	3400	4250				40.6	H3	220
36	520	5722	5832	4081	4160	2041	2080	3467	4333				41.4	H3	220
36	530	5833	5943	4161	4240	2081	2120	3533	4417				42.2	H3	220
36	540	5944	6054	4241	4320	2121	2160	3600	4500				43.0	H3	220
36	550	6055	6166	4321	4400	2161	2200	3667	4583				43.8	H3	220
36	560	6167	6277	4401	4480	2201	2240	3733	4667				44.6	H3	220
36	570	6278	6388	4481	4560	2241	2280	3800	4750				45.4	H3	220
36	580	6389	6499	4561	4640	2281	2320	3867	4833				46.2	H3	220
36	590	6500	6610	4641	4720	2321	2360	3933	4917				47.0	H3	220
36	600	6611	6721	4721	4800	2361	2400	4000	5000				47.8	H3	220

* Recharge time +/- 5%

Charge curve/ profile:

S = Vented Material Handling Essential, L = Vented Material Handling Premium,

G = Vented Material Handling Essential (Air), H = Vented Material Handling Premium (Air),

R = Vented Material Handling Essential (Rapid), D = Gel Sonnenschein

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48V charger selection table

Battery technology	Flooded			Gel cells PzV
Charge curve/profile recharge time (h)*:	S & L = 12 G & H = 11	S & L = 8 G & H = 7	R = 6	D = 12-14

Charger model		Capacity range, C ₅ rated Ah							
Voltage	Current	min	max	min	max	min	max	min	max

48	20	189	250	141	175	61	80	130	167
48	25	251	304	176	210	81	100	167	208
48	30	305	375	211	250	101	120	200	250
48	35	376	416	251	281	121	140	233	292
48	40	417	471	282	320	141	160	267	333
48	45	472	527	321	360	161	180	300	375
48	50	528	582	361	400	181	200	333	417
48	55	583	638	401	440	201	220	367	458
48	60	639	700	441	500	221	240	400	500
48	65	701	749	501	518	241	260	433	542
48	70	750	804	519	557	261	280	467	583
48	75	805	860	558	595	281	300	500	625
48	80	861	916	596	634	301	320	533	667
48	85	917	971	635	672	321	340	567	708
48	90	972	1027	673	711	341	360	600	750
48	95	1028	1082	712	749	361	380	633	792
48	100	1083	1166	750	800	381	400	667	833
48	110	1167	1277	801	880	401	440	733	917
48	120	1278	1388	881	960	441	480	800	1000
48	130	1389	1499	961	1038	481	520	867	1083
48	140	1500	1610	1039	1115	521	560	933	1167
48	150	1611	1721	1116	1192	561	600	1000	1250
48	160	1722	1832	1193	1268	601	640	1067	1333
48	170	1833	1943	1269	1345	641	680	1133	1417
48	180	1944	2054	1346	1422	681	720	1200	1500
48	190	2055	2166	1423	1499	721	760	1267	1583
48	200	2167	2277	1500	1600	761	800	1333	1667
48	210	2278	2388	1601	1680	801	840	1400	1750
48	220	2389	2499	1681	1760	841	880	1467	1833
48	230	2500	2610	1761	1840	881	920	1533	1917
48	240	2611	2721	1841	1920	921	960	1600	2000
48	250	2722	2832	1921	2000	961	1000	1667	2083
48	260	2833	2943	2001	2080	1001	1040	1733	2167
48	270	2944	3054	2081	2160	1041	1080	1800	2250
48	280	3055	3166	2161	2240	1081	1120	1867	2333
48	290	3167	3277	2241	2320	1121	1160	1933	2417
48	300	3278	3388	2321	2400	1161	1200	2000	2500
48	310	3389	3499	2401	2480	1201	1240	2067	2583
48	320	3500	3610	2481	2560	1241	1280	2133	2667
48	330	3611	3721	2561	2640	1281	1320	2200	2750
48	340	3722	3832	2641	2720	1321	1360	2267	2833
48	350	3833	3943	2721	2800	1361	1400	2333	2917
48	360	3944	4054	2801	2880	1401	1440	2400	3000
48	370	4055	4166	2881	2960	1441	1480	2467	3083
48	380	4167	4277	2961	3040	1481	1520	2533	3167
48	390	4278	4388	3041	3120	1521	1560	2600	3250
48	400	4389	4499	3121	3200	1561	1600	2667	3333
48	410	4500	4610	3201	3280	1601	1640	2733	3417
48	420	4611	4721	3281	3360	1641	1680	2800	3500
48	430	4722	4832	3361	3440	1681	1720	2867	3583
48	440	4833	4943	3441	3520	1721	1760	2933	3667
48	450	4944	5054	3521	3600	1761	1800	3000	3750
48	460	5055	5166	3601	3680	1801	1840	3067	3833
48	470	5167	5277	3681	3760	1841	1880	3133	3917
48	480	5278	5388	3761	3840	1881	1920	3200	4000
48	490	5389	5499	3841	3920	1921	1960	3267	4083
48	500	5500	5610	3921	4000	1961	2000	3333	4167
48	510	5611	5721	4001	4080	2001	2040	3400	4250
48	520	5722	5832	4081	4160	2041	2080	3467	4333

* Recharge time +/- 5%

Charge curve/ profile:

S = Vented Material Handling Essential, L = Vented Material Handling Premium,
G = Vented Material Handling Essential (Air), H = Vented Material Handling Premium (Air),
R = Vented Material Handling Essential (Rapid), D = Gel Sonnenschein

Single phase			Three phase		
Input current @230V +/- 10 %	Cubicle size	Weight	Input current @400V +/- 10 %	Cubicle size	Weight
		kg			kg

5.9	H1	25	2.1	H1	24
7.4	H1	25	2.7	H1	24
8.8	H1	25	3.2	H1	24
10.3	H1	25	3.7	H1	24
11.8	H1	25	4.2	H1	24
13.2	H1	25	4.8	H1	24
14.7	H2	56	5.3	H1	24
16.2	H2	56	5.8	H1	24
17.7	H2	56	6.4	H1	24
19.1	H1	56	6.9	H1	24
20.6	H2	56	7.4	H1	26
22.1	H2	56	8.0	H1	26
23.5	H2	56	8.5	H1	26
25.0	H2	56	9.0	H1	26
26.5	H2	56	9.6	H1	26
28.0	H2	56	10.1	H1	26
29.4	H2	56	10.6	H1	26
32.4	H3	122	11.7	H1	26
35.3	H3	122	12.7	H1	26
38.3	H3	122	13.8	H1	26
41.2	H3	122	14.9	H2	64
44.1	H3	122	15.9	H2	64
47.1	H3	220	17.0	H2	64
50.0	H3	220	18.1	H2	64
53.0	H3	220	19.1	H2	64
55.9	H3	220	20.2	H2	64
58.9	H3	220	21.2	H2	64
			22.3	H2	64
			23.4	H2	64
			24.4	H2	64
			25.5	H2	64
			26.6	H2	64
			27.6	H2	64
			28.7	H3	122
			29.7	H3	122
			30.8	H3	122
			31.9	H3	122
			32.9	H3	122
			34.0	H3	122
			35.0	H3	122
			36.1	H3	122
			37.2	H3	122
			38.2	H3	122
			39.3	H3	122
			40.4	H3	122
			41.4	H3	122
			42.5	H3	220
			43.5	H3	220
			44.6	H3	220
			45.7	H3	220
			46.7	H3	220
			47.8	H3	220
			48.9	H3	220
			49.9	H3	220
			51.0	H3	220
			52.0	H3	220
			53.1	H3	220
			54.2	H3	220
			55.2	H3	220

Motion+ Charger Ultimate

Technical data sheet

72V charger selection table

Battery technology		Flooded						Gel cells PzV		Three phase		
Charge curve/profile recharge time (h)*:		S & L = 12 G & H = 11		S & L = 8 G & H = 7		R = 6		D = 12-14		Input current @400V +/- 10 %	Cubicle size	Weight
Charger model		Capacity range, C _s rated Ah										
Voltage	Current	min	max	min	max	min	max	min	max			
72	20	189	250	141	175	61	80	130	167	3.2	H1	26
72	25	251	304	176	210	81	100	167	208	4.0	H1	26
72	30	305	375	211	250	101	120	200	250	4.8	H1	26
72	35	376	416	251	281	121	140	233	292	5.6	H1	26
72	40	417	471	282	320	141	160	267	333	6.4	H1	26
72	45	472	527	321	360	161	180	300	375	7.2	H1	26
72	50	528	582	361	400	181	200	333	417	8.0	H1	26
72	55	583	638	401	440	201	220	367	458	8.8	H1	26
72	60	639	700	441	500	221	240	400	500	9.6	H1	26
72	65	701	749	501	518	241	260	433	542	10.4	H1	26
72	70	750	804	519	557	261	280	467	583	11.2	H1	26
72	75	805	860	558	595	281	300	500	625	11.9	H1	26
72	80	861	916	596	634	301	320	533	667	12.7	H1	26
72	85	917	971	635	672	321	340	567	708	13.5	H1	27
72	90	972	1027	673	711	341	360	600	750	14.3	H1	27
72	95	1028	1082	712	749	361	380	633	792	15.1	H1	27
72	100	1083	1166	750	800	381	400	667	833	15.9	H1	27
72	110	1167	1277	801	880	401	440	733	917	17.5	H2	64
72	120	1278	1388	881	960	441	480	800	1000	19.1	H2	64
72	130	1389	1499	961	1038	481	520	867	1083	20.7	H2	64
72	140	1500	1610	1039	1115	521	560	933	1167	22.3	H2	64
72	150	1611	1721	1116	1192	561	600	1000	1250	23.9	H2	64
72	160	1722	1832	1193	1268	601	640	1067	1333	25.5	H2	64
72	170	1833	1943	1269	1345	641	680	1133	1417	27.1	H2	66
72	180	1944	2054	1346	1422	681	720	1200	1500	28.7	H2	66
72	190	2055	2166	1423	1499	721	760	1267	1583	30.3	H2	66
72	200	2167	2277	1500	1600	761	800	1333	1667	31.9	H2	66
72	210	2278	2388	1601	1680	801	840	1400	1750	33.5	H3	122
72	220	2389	2499	1681	1760	841	880	1467	1833	35.0	H3	122
72	230	2500	2610	1761	1840	881	920	1533	1917	36.6	H3	122
72	240	2611	2721	1841	1920	921	960	1600	2000	38.2	H3	122
72	250	2722	2832	1921	2000	961	1000	1667	2083	39.8	H3	122
72	260	2833	2943	2001	2080	1001	1040	1733	2167	41.4	H3	122
72	270	2944	3054	2081	2160	1041	1080	1800	2250	43.0	H3	122
72	280	3055	3166	2161	2240	1081	1120	1867	2333	44.6	H3	122
72	290	3167	3277	2241	2320	1121	1160	1933	2417	46.2	H3	122
72	300	3278	3388	2321	2400	1161	1200	2000	2500	47.8	H3	122
72	310	3389	3499	2401	2480	1201	1240	2067	2583	49.4	H3	220
72	320	3500	3610	2481	2560	1241	1280	2133	2667	51.0	H3	220
72	330	3611	3721	2561	2640	1281	1320	2200	2750	52.6	H3	220
72	340	3722	3832	2641	2720	1321	1360	2267	2833	54.2	H3	220
72	350	3833	3943	2721	2800	1361	1400	2333	2917	55.8	H3	220
72	360	3944	4054	2801	2880	1401	1440	2400	3000	57.3	H3	220
72	370	4055	4166	2881	2960	1441	1480	2467	3083	58.9	H3	220
72	380	4167	4277	2961	3040	1481	1520	2533	3167	60.5	H3	220
72	390	4278	4388	3041	3120	1521	1560	2600	3250	62.1	H3	220
72	400	4389	4499	3121	3200	1561	1600	2667	3333	63.7	H3	220

* Recharge time +/- 5%

Charge curve/ profile:

S = Vented Material Handling Essential, L = Vented Material Handling Premium,
 G = Vented Material Handling Essential (Air), H = Vented Material Handling Premium (Air),
 R = Vented Material Handling Essential (Rapid), D = Gel Sonnenschein

Motion+ Charger Ultimate

Technical data sheet

80V charger selection table

Battery technology		Flooded						Gel cells PzV		Three phase		
Charge curve/profile recharge time (h)*:		S & L = 12 G & H = 11		S & L = 8 G & H = 7		R = 6		D = 12-14		Input current @400V +/- 10 %	Cubicle size	Weight
Charger model		Capacity range, C _s rated Ah										
Voltage	Current	min	max	min	max	min	max	min	max			kg
80	20	189	250	141	175	61	80	130	167	3.5	H1	26
80	25	251	304	176	210	81	100	167	208	4.4	H1	26
80	30	305	375	211	250	101	120	200	250	5.3	H1	26
80	35	376	416	251	281	121	140	233	292	6.2	H1	26
80	40	417	471	282	320	141	160	267	333	7.1	H1	26
80	45	472	527	321	360	161	180	300	375	8.0	H1	26
80	50	528	582	361	400	181	200	333	417	8.9	H1	26
80	55	583	638	401	440	201	220	367	458	9.7	H1	26
80	60	639	700	441	500	221	240	400	500	10.6	H1	26
80	65	701	749	501	518	241	260	433	542	11.5	H1	26
80	70	750	804	519	557	261	280	467	583	12.4	H1	26
80	75	805	860	558	595	281	300	500	625	13.3	H1	26
80	80	861	916	596	634	301	320	533	667	14.2	H1	26
80	85	917	971	635	672	321	340	567	708	15.0	H1	27
80	90	972	1027	673	711	341	360	600	750	15.9	H1	27
80	95	1028	1082	712	749	361	380	633	792	16.8	H1	27
80	100	1083	1166	750	800	381	400	667	833	17.7	H1	27
80	110	1167	1277	801	880	401	440	733	917	19.5	H2	64
80	120	1278	1388	881	960	441	480	800	1000	21.2	H2	64
80	130	1389	1499	961	1038	481	520	867	1083	23.0	H2	64
80	140	1500	1610	1039	1115	521	560	933	1167	24.8	H2	64
80	150	1611	1721	1116	1192	561	600	1000	1250	26.6	H2	64
80	160	1722	1832	1193	1268	601	640	1067	1333	28.3	H2	64
80	170	1833	1943	1269	1345	641	680	1133	1417	30.1	H2	66
80	180	1944	2054	1346	1422	681	720	1200	1500	31.9	H2	66
80	190	2055	2166	1423	1499	721	760	1267	1583	33.6	H2	66
80	200	2167	2277	1500	1600	761	800	1333	1667	35.4	H2	66
80	210	2278	2388	1601	1680	801	840	1400	1750	37.2	H3	122
80	220	2389	2499	1681	1760	841	880	1467	1833	38.9	H3	122
80	230	2500	2610	1761	1840	881	920	1533	1917	40.7	H3	122
80	240	2611	2721	1841	1920	921	960	1600	2000	42.5	H3	122
80	250	2722	2832	1921	2000	961	1000	1667	2083	44.3	H3	122
80	260	2833	2943	2001	2080	1001	1040	1733	2167	46.0	H3	122
80	270	2944	3054	2081	2160	1041	1080	1800	2250	47.8	H3	122
80	280	3055	3166	2161	2240	1081	1120	1867	2333	49.6	H3	122
80	290	3167	3277	2241	2320	1121	1160	1933	2417	51.3	H3	122
80	300	3278	3388	2321	2400	1161	1200	2000	2500	53.1	H3	122
80	310	3389	3499	2401	2480	1201	1240	2067	2583	54.9	H3	220
80	320	3500	3610	2481	2560	1241	1280	2133	2667	56.6	H3	220
80	330	3611	3721	2561	2640	1281	1320	2200	2750	58.4	H3	220
80	340	3722	3832	2641	2720	1321	1360	2267	2833	60.2	H3	220
80	350	3833	3943	2721	2800	1361	1400	2333	2917	62.0	H3	220
80	360	3944	4054	2801	2880	1401	1440	2400	3000	63.7	H3	220
80	370	4055	4166	2881	2960	1441	1480	2467	3083	65.5	H3	220
80	380	4167	4277	2961	3040	1481	1520	2533	3167	67.3	H3	220
80	390	4278	4388	3041	3120	1521	1560	2600	3250	69.0	H3	220
80	400	4389	4499	3121	3200	1561	1600	2667	3333	70.8	H3	220

* Recharge time +/- 5%

Charge curve/ profile:

S = Vented Material Handling Essential, L = Vented Material Handling Premium,
G = Vented Material Handling Essential (Air), H = Vented Material Handling Premium (Air),
R = Vented Material Handling Essential (Rapid), D = Gel Sonnenschein