

	AP 200	AP 300	AP 300 S	AP 500 S	AR 2000 L	AR 3000 L
AP AND AR BATTERIES						
Battery Charging Times – Minutes (80%/100% capacity)						
AL 101 CHARGER	150/200	190/250	230/300	280/355	–	–
NEW! AL 301 CHARGER	40/50	45/65	55/70	70/90	210/270	310/400
AL 301-4 CHARGER	40/50	45/65	55/70	70/90	210/270	310/400
AL 500 CHARGER	30/45	25/35	30/45	40/55	110/150	170/220
Run Times Per Battery Charge – Minutes¹						
NEW! MSA 160 C-B	42	50	62	74	–	–
MSA 161 T**	42	50	62	74	–	–
NEW! MSA 200 C-B	42*	45	50	60	174	261
NEW! MSA 220 C-B	32	35*	37	44	201*	281*
NEW! MSA 220 TC-O**	16*	25*	29	34	109*	174*
NEW! MSA 300 C-O	–	–	–	20-44	–	–
HTA 66	42	55	68	82	195	300
HTA 86	42	55	68	82	195	300
HTA 135	22*	35	45	54	160	240
KMA 135 R (FS-KM line) ²	30-14*	38-18	47-22	54-26	170-81	250-120
FSA 86 R	30	36	45	55	185	280
FSA 90 R (line head)	24	30	37	44	130	196
FSA 135² (with grass-cutting blade)	50-30*	70-40	100-40	120-60	310-160	430-240
FSA 135 R (line head) ² (nylon mowing head)	28-17*	36-19	45-25	120-60	160-90	220-130
FCA 135	28*	35	45	52	165	250
FCA 140	28*	35	45	52	165	250
HSA 66	144	180	223	268	717	1,043
NEW! HSA 100	125	–	225	270	–	–
NEW! HSA 130 R²	108-84	135-105	167-130	200-155	550-480	900-740
NEW! HSA 130 T²	108-84	135-105	167-130	200-155	550-480	900-740
HLA 66	145	180	220	268	715	1,040
HLA 86	145	180	220	268	715	1,040
HLA 135 (145°)	64	77	95	114	345	520
HLA 135 K (145°)	64	77	95	114	345	520
HLA 135 K (0°)	64	77	95	114	345	520
BGA 86	17	21	26	31	90	140
BGA 100³	66-12*	83-16	103-20	123-24	320-65	510-95
BGA 200³	49-7*	78-12	95-14	114-17	315-53	500-85
NEW! BGA 300³	–	–	–	–	97-48*	140-61
SGA 85	1,000	–	–	–	–	–
TSA 230	14*	18	22	26	80	125
Working Range Per Battery Charge – Sq. Ft.¹						
RMA 510	–	3,056	3,616	4,542	–	–
RMA 510 V	–	2,583	3,078	3,842	–	–

* Reduced tool performance – Not applicable

Note: Battery/tool combinations providing the best balance, adequate run time, and performance are shown in bold.

¹ The battery run times and working range specifications for each battery charge are estimates and may vary depending on how the tool is used and what is being cut.

² Level 1 – Level 3

³ Level 1 – Boost

****WARNING:** If using an AR System battery or AP System battery in a battery bag with connecting cord, always use a lift bucket for in-tree surgery and maintenance. Do NOT climb in the tree.