



CHARGER SPECIFICATION

CHARGER SELECTION TABLE

FILON FUTUR ^{XL} Characteristics

Charging voltages: 24V, 36V, 48V or 80V
 Max. rated output: 22 kW
 Mains voltages: 360-440V 50/60Hz
 Protection category: IP 21 higher protection categories up to IP 54 on request
 Protection class: I

	Cabinet	Width	Height	Depth
	HF 550	420	400	300
	HF 650	420	700	300
	HF 750	420	790	300

FILON FUTUR ^{XL} Options

- NEW Filon Futur Expert** Allows individual programming of the charging parameters such as charge voltage, battery type, capacity, charge current, and charge time
- ConVision** The compact programming and analysis package for mobile service applications, consisting of service module and software
- Protection category IP44-IP54** With special cabinets for IP44-IP54 protection
- On-Board** Customizable, individual implementations (incl. drive-off protection)
- Temperature compensation** Temperature-controlled charge, e.g. for cold store applications
- EUW** Electrolyte circulation for reducing charge time by up to 2.5 h
- Pulse charge** Ionic electrolyte circulation for reducing charge time by up to 2 h and for very smooth and energy saving charging
- Graphical display blue backlight** Detailed indication of charging settings, charging progress, and warning and malfunction messages, remote display available upon request
- Battery Management System (BMS)** The central IEB monitoring system, ideal for battery charging stations
- Battery Management Counter (BMC)** External, two-digit counter (up to 99), starts counting automatically after charging is finished
- Control column** External indicator light to signal charging status, visible at a distance

Output Voltage	Charger Type	Nominal Current [A]	Charging Curve/Charging Time/Battery Capacity K _b [Ah]					IUla (G1V)	IUla (PzV)	Current [A]	Cabinet	Weight [kg]	Type No.
			IUIa	IUIa	IUIa	IUIa	IUIa						
24 V	Z 400 G 24 / 110 B25-FP	110	550-687	688-880	880-1100	1100-1375	612-918	734-917	8	HF 550	23	74210	
	Z 400 G 24 / 120 B25-FP	120	600-750	750-960	960-1200	1200-1500	667-1000	800-1000	8,7	HF 550	23	74220	
	Z 400 G 24 / 130 B25-FP	130	650-812	813-1040	1040-1300	1300-1625	722-1083	866-1083	9,4	HF 550	23	75230	
	Z 400 G 24 / 140 B25-FP	140	700-875	875-1120	1120-1400	1400-1750	778-1167	933-1167	10,1	HF 550	23	75240	
	Z 400 G 24 / 150 B25-FP	150	750-937	938-1200	1200-1500	1500-1875	833-1250	1000-1250	10,9	HF 550	23	75250	
	Z 400 G 24 / 160 B25-FP	160	800-1000	1000-1280	1280-1600	1600-2000	889-1333	1067-1333	11,6	HF 550	23	75260	
	Z 400 G 24 / 170 B25-FP	170	850-1062	1063-1360	1360-1700	1700-2125	944-1416	1133-1416	12,3	HF 550	23	75270	
	Z 400 G 24 / 180 B25-FP	180	900-1125	1125-1440	1440-1800	1800-2250	1000-1500	1200-1500	13	HF 550	23	75280	
	Z 400 G 24 / 190 B25-FP	190	950-1187	1188-1520	1520-1900	1900-2375	1055-1583	1266-1583	13,6	HF 550	23	75290	
	Z 400 G 24 / 200 B25-FP	200	1000-1250	1250-1600	1600-2000	2000-2500	1111-1666	1333-1666	14,5	HF 550	23	75300	
	36 V	Z 400 G 36 / 70 B25-FP	70	350-437	438-560	560-700	700-875	389-583	467-583	7,5	HF 550	23	74370
		Z 400 G 36 / 75 B25-FP	75	375-468	469-600	600-750	750-937	416-625	500-625	8	HF 550	23	74375
Z 400 G 36 / 80 B25-FP		80	400-500	500-640	640-800	800-1000	444-667	533-667	8,6	HF 550	23	74380	
Z 400 G 36 / 90 B25-FP		90	450-562	563-720	720-900	900-1125	500-750	600-750	9,7	HF 550	23	75390	
Z 400 G 36 / 100 B25-FP		100	500-625	625-800	800-1000	1000-1250	556-833	667-833	10,7	HF 550	23	75400	
Z 400 G 36 / 110 B25-FP		110	550-687	688-880	880-1100	1100-1375	612-918	734-917	11,8	HF 550	23	75410	
Z 400 G 36 / 120 B25-FP		120	600-750	750-960	960-1200	1200-1500	667-1000	800-1000	12,9	HF 550	23	75420	
Z 400 G 36 / 130 B25-FP		130	650-812	813-1040	1040-1300	1300-1625	722-1083	866-1083	13,9	HF 550	23	75430	
Z 400 G 36 / 140 B25-FP		140	700-875	875-1120	1120-1400	1400-1750	778-1167	933-1167	15	HF 550	23	75440	
Z 400 G 36 / 150 B25-FP		150	750-937	938-1200	1200-1500	1500-1875	833-1250	1000-1250	13,5	HF 550	23	75450	
Z 400 G 36 / 160 B25-FP		160	800-1000	1000-1280	1280-1600	1600-2000	889-1333	1067-1333	14,4	HF 550	23	75460	
D 400 G 36 / 170 B25-FP		170	850-1062	1063-1360	1360-1700	1700-2125	944-1416	1133-1416	12,2	HF 550	28	75470	
D 400 G 36 / 180 B25-FP	180	900-1125	1125-1440	1440-1800	1800-2250	1000-1500	1200-1500	12,9	HF 550	28	75480		
D 400 G 36 / 190 B25-FP	190	950-1187	1188-1520	1520-1900	1900-2375	1055-1583	1266-1583	13,6	HF 550	28	75490		
D 400 G 36 / 200 B25-FP	200	1000-1250	1250-1600	1600-2000	2000-2500	1111-1666	1333-1666	14,3	HF 550	28	75500		
48 V	Z 400 G 48 / 60 B25-FP	60	300-375	375-480	480-600	600-750	333-500	400-500	8,5	HF 550	23	74560	
	Z 400 G 48 / 65 B25-FP	65	325-406	407-520	520-650	650-812	361-541	433-541	9,2	HF 550	23	74565	
	Z 400 G 48 / 70 B25-FP	70	350-437	438-560	560-700	700-875	389-583	467-583	9,9	HF 550	23	75570	
	Z 400 G 48 / 80 B25-FP	80	400-500	500-640	640-800	800-1000	444-667	533-667	11,4	HF 550	23	75580	
	Z 400 G 48 / 90 B25-FP	90	450-562	563-720	720-900	900-1125	500-750	600-750	12,8	HF 550	23	75590	
	Z 400 G 48 / 100 B25-FP	100	500-625	625-800	800-1000	1000-1250	556-833	667-833	14,2	HF 550	23	75600	
	Z 400 G 48 / 110 B25-FP	110	550-687	688-880	880-1100	1100-1375	612-918	734-917	13,1	HF 550	23	75610	
	Z 400 G 48 / 115 B25-FP	115	575-718	718-920	920-1150	1150-1440	638-958	766-958	13,7	HF 550	23	75615	
	Z 400 G 48 / 120 B25-FP	120	600-750	750-960	960-1200	1200-1500	667-1000	800-1000	14,3	HF 550	23	75620	
	D 400 G 48 / 120 B25-FP	120	600-750	750-960	960-1200	1200-1500	667-1000	800-1000	11,4	HF 550	28	75625	
	D 400 G 48 / 130 B25-FP	130	650-812	813-1040	1040-1300	1300-1625	722-1083	866-1083	12,3	HF 550	28	75630	
	D 400 G 48 / 140 B25-FP	140	700-875	875-1120	1120-1400	1400-1750	778-1167	933-1167	13,3	HF 550	28	75640	
D 400 G 48 / 150 B25-FP	150	750-937	938-1200	1200-1500	1500-1875	833-1250	1000-1250	14,2	HF 550	28	75650		
D 400 G 48 / 160 B25-FP	160	800-1000	1000-1280	1280-1600	1600-2000	889-1333	1067-1333	15,1	HF 550	28	75660		
D 400 G 48 / 170 B25-FP	170	850-1062	1063-1360	1360-1700	1700-2125	944-1416	1133-1416	13,5	HF 550	28	75670		
D 400 G 48 / 180 B25-FP	180	900-1125	1125-1440	1440-1800	1800-2250	1000-1500	1200-1500	14,3	HF 550	28	75680		
80 V	Z 400 G 80 / 40 B25-FP	40	200-250	250-320	320-400	400-500	222-333	267-333	9,4	HF 550	23	75840	
	Z 400 G 80 / 50 B25-FP	50	250-312	313-400	400-500	500-625	278-417	333-417	11,7	HF 550	23	75850	
	Z 400 G 80 / 60 B25-FP	60	300-375	375-480	480-600	600-750	333-500	400-500	14,1	HF 550	23	75860	
	D 400 G 80 / 70 B25-FP	70	350-437	438-560	560-700	700-875	389-583	467-583	11	HF 550	28	75870	
	D 400 G 80 / 75 B25-FP	75	375-468	469-600	600-750	750-937	416-625	500-625	11,7	HF 550	28	75875	
	D 400 G 80 / 80 B25-FP	80	400-500	500-640	640-800	800-1000	444-667	533-667	12,5	HF 550	28	75880	
	D 400 G 80 / 90 B25-FP	90	450-562	563-720	720-900	900-1125	500-750	600-750	14,1	HF 550	28	75890	
	D 400 G 80 / 100 B25-FP	100	500-625	625-800	800-1000	1000-1250	556-833	667-833	13,1	HF 550	28	75900	
	D 400 G 80 / 110 B25-FP	110	550-687	688-880	880-1100	1100-1375	612-918	734-917	14,4	HF 550	28	75910	
	D 400 G 80 / 120 B25-FP	120	600-750	750-960	960-1200	1200-1500	667-1000	800-1000	15,7	HF 550	28	75920	
	D 400 G 80 / 130 B25-FP	130	650-812	813-1040	1040-1300	1300-1625	722-1083	866-1083	25,5	HF 650	45	75930	
	D 400 G 80 / 140 B25-FP	140	700-875	875-1120	1120-1400	1400-1750	778-1167	933-1167	27,5	HF 650	45	75940	
D 400 G 80 / 150 B25-FP	150	750-937	938-1200	1200-1500	1500-1875	833-1250	1000-1250	29,4	HF 650	45	75950		
D 400 G 80 / 160 B25-FP	160	800-1000	1000-1280	1280-1600	1600-2000	889-1333	1067-1333	31,4	HF 650	45	75960		
D 400 G 80 / 170 B25-FP	170	850-1062	1063-1360	1360-1700	1700-2125	944-1416	1133-1416	26,7	HF 650	50	75970		
D 400 G 80 / 180 B25-FP	180	900-1125	1125-1440	1440-1800	1800-2250	1000-1500	1200-1500	28,2	HF 650	50	75980		
D 400 G 80 / 190 B25-FP	190	950-1187	1188-1520	1520-1900	1900-2375	1055-1583	1266-1583	29,8	HF 650	55	75990		
D 400 G 80 / 200 B25-FP	200	1000-1250	1250-1600	1600-2000	2000-2500	1111-1666	1333-1666	31,4	HF 650	55	75999		

¹Pz2, Pz8, G1S, CSM, etc. ²pulse/ionic mixing