

Technical Data S6 the soaring motor glider

	unit	S6	S6-R	S6-T		S6-RT	
Altitude		MSL	MSL	MSL	16'000	MSL	16'000
Max T-O weight	kg	850,00	850,00	850,00	850,00	850,00	850,00
Weight empty	kg	615,00	626,00	627,00	627,00	639,00	639,00
Payload	kg	235,00	224,00	223,00	223,00	211,00	211,00
Water ballast capacity	l	-	-	-	-	-	-
Power plant		Rotax 912S		Rotax 914F		Rotax 914F	
Max T-O power at corresponding altitude	PS	100,00	100,00	115,00	90,00	115,00	90,00
MCP	PS	94,00	94,00	100,00	90,00	100,00	90,00
Fuel capacity	l	70,00	70,00	70,00	70,00	70,00	70,00
Fuel capacity long range	l	140,00	140,00	140,00	140,00	140,00	140,00
Wing span	m	18,00	18,00	18,00	18,00	18,00	18,00
Wing span folded	m	9,40	9,40	9,40	9,40	9,40	9,40
Wing area	m ²	17,86	17,86	17,86	17,86	17,86	17,86
Wing aspect ratio	-	18,14	18,14	18,14	18,14	18,14	18,14
Length overall	m	8,50	8,50	8,50	8,50	8,50	8,50
Height overall	m	2,45	2,45	2,45	2,45	2,45	2,45
Landing Gear		fixed	retractable	fixed	fixed	retractable	retractable
Wheel track	m	2,00	2,00	2,00	2,00	2,00	2,00
Wheelbase	m	2,00	2,00	2,00	2,00	2,00	2,00
Best glide ratio	-	32,00	38,00	32,00	32,00	38,00	38,00
Speed for best glide ratio at MTOW (EAS)	km/h	115,00	121,00	115,00	115,00	121,00	121,00
Min rate of sink at MTOW	m/s	0,93	0,80	0,93	1,19	0,80	1,03
Min wing loading (weight empty + 70kg)	kg/m ²	38,35	38,97	39,03	39,03	39,70	39,70
Max wing loading	kg/m ²	47,59	47,59	47,59	47,59	47,59	47,59
Rate of climb at MCP in corresponding altitude	m/s	4,18	4,49	4,63	3,38	4,94	3,71
Max rate of climb in corresponding altitude	m/s	4,45	4,79	5,57	3,38	5,91	3,71
Cruising speed at MCP (TAS)	km/h	267,00	280,00	272,56	311,02	280,00	346,17
Cruising speed at 75% MCP (TAS)	km/h	240,00	270,00	245,00	279,57	275,63	314,52
Cruising speed at 55% MCP (TAS)	km/h	214,00	240,00	218,46	249,28	245,00	279,57
Fuel consumption at MCP	l/h	25,00	25,00	26,60	26,60	26,60	26,60
Fuel consumption at 75% MCP	l/h	18,50	18,50	19,68	19,68	19,68	19,68
Fuel consumption at 55% MCP	l/h	14,50	14,50	15,43	15,43	15,43	15,43
Max range at 100% MCP long range	km	1495,20	1568,00	1434,78	1637,23	1473,92	1822,25
Max range at 75% MCP long range	km	1816,22	2043,24	1742,82	1988,74	1960,67	2237,33
Max range at 55% MCP long range	km	2066,21	2317,24	1982,71	2262,48	2223,60	2537,36

The quoted technical data may vary like it is usual in this industry.

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