

SolarEdge String Design Matrix

Single Phase HD Wave, Genesis, Energy Hub

Model	W AC Rating	Max Oversizing	Min 60V	Min 80V	Max 60V/80V	PV Only Strings	Max watts per string	Max array watts
SE5000H	5	133%	8	6	25	1	6800	680
SE5000H-MM	5	133%	8	6	25	1	6800	6800
SE6000H	6	133%	8	6	25	2	5700	7980
SE6000H-MM	6	133%	8	6	25	2	5700	7980
SE8250H	8.25	133%	8	6	25	2	6000	11000
SE8250H-MM	8.25	133%	8	6	25	2	6000	11000
SE10000H	10	133%	8	6	25	2 or 3	6800	13300
SE10000H-MM	10	133%	8	6	25	2 or 3	6800	13300

Maximum amount of modules per string																		
410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	13	13	13
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	14	13	13
13	13	13	13	13	13	12	12	12	12	12	12	12	12	11	11	11	11	11
13	13	13	13	13	13	12	12	12	12	12	12	12	12	11	11	11	11	11
14	14	14	14	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12
14	14	14	14	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	13	13	13
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	13	13	13

Single Phase HD Wave, Genesis, Energy Hub + Battery/s

Model	W AC Rating	Max Oversizing	Min 60V	Min 80V	Max 60V/80V	Strings	Max watts per string	Max array watts (no RSS)	5000 Maximum array size (watts)					
									x1 RSS	Strings	x2 RSS	Strings	x3 RSS	Strings
SE5000H	5	133%	8	6	25	1 or 2	6800	6800	6650	1	6650	1	6650	1
SE5000H-MM	5	300%	8	6	25	1 or 2	6800	6800	11650	2	15000	2	15000	2
SE6000H	6	133%	8	6	25	2 or 3	5700	7980	7980	2	7980	2	7980	2
SE6000H-MM	6	300%	8	6	25	2 or 3	5700	7980	12980	2	17980	3	18000	3
SE8250H	8.25	133%	8	6	25	2 or 3	6000	10973	10973	2	10973	2	10973	2
SE8250H-MM	8.25	267%	8	6	25	2 or 3	6000	10973	15973	3	20973	3	22000	4
SE10000H	10	133%	8	6	25	2 or 3	6800	13300	13300	2	13300	2	13300	2
SE10000H-MM	10	220%	8	6	25	2 or 3	6800	13300	18300	3	22000	3	22000	4

Maximum amount of modules per string																		
410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	13	13	13
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	14	13	13
13	13	13	13	13	13	12	12	12	12	12	12	12	12	11	11	11	11	11
13	13	13	13	13	13	12	12	12	12	12	12	12	12	11	11	11	11	11
14	14	14	14	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12
14	14	14	14	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	13	13	13
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	13	13	13

3 Phase Residential

Model	W AC Rating	Max Oversizing	Min 60V	Min 80V	Max 60V/80V	Strings	Max watts per string	Max array watts
SE5K	5	133%	9	8	25	1	6800	6650
SE7K	7	133%	9	8	25	2	5625	9310
SE8.25K	8.25	133%	9	8	25	2	5625	10973
SE10K	10	133%	9	8	25	2 or 3	6800	13300

Maximum amount of modules per string																		
410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	13	13	13
13	13	13	13	13	12	12	12	12	12	12	12	11	11	11	11	11	11	11
13	13	13	13	13	12	12	12	12	12	12	12	11	11	11	11	11	11	11
14	14	14	14	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	13	13	13
16	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	13	13	13

3 Phase Commercial with S1000 Optimiser

Model	W AC Rating	Max Oversizing	S1000 Optimizers		PV Modules		Max watts per single string	Max watts 2+ strings	Min array watts	Max array watts
			Min	Max	Min	Max				
SE15K	15	135%	14	30	27	60	13500	18500	-	20250
SE17K	17	135%	14	30	27	60	13500	18500	11000	22950
SE25K	25	175%	14	30	27	60	13500	18500	11000	43750
SE30K	30	175%	15	30	29	60	15300	20300	11000	52500
SE33.3K	33.3	175%	14	30	27	60	13500	18500	11000	58275

Maximum amount of modules per single string with 2+ strings																		
410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500
45	44	44	43	43	42	42	41	41	40	40	39	39	38	38	38	37	37	37
45	44	44	43	43	42	42	41	41	40	40	39	39	38	38	38	37	37	37
45	44	44	43	43	42	42	41	41	40	40	39	39	38	38	38	37	37	37
49	48	48	47	47	46	46	45	45	44	44	43	43	42	42	41	41	41	40
45	44	44	43	43	42	42	41	41	40	40	39	39	38	38	38	37	37	37

3 Phase Commercial with S1200 Optimiser

Model	W AC Rating	Max Oversizing	S1200 Optimizers		PV Modules		Max watts per single string	Max watts 2+ strings	Min array watts	Max array watts
			Min	Max	Min	Max				
SE15K	15	135%	14	30	27	60	15000	20000	-	20250
SE17K	17	135%	14	30	27	60	15000	20000	11000	22950
SE25K	25	175%	14	30	27	60	15000	20000	11000	43750
SE30K	30	175%	15	30	29	60	17000	23000	11000	52500
SE33.3K	33.3	175%	15	30	29	60	17000	23000	11000	58275

Maximum amount of modules per single string with 2+ strings																		
410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500
48	48	47	47	46	45	45	44	44	43	43	43	42	42	41	41	40	40	40
48	48	47	47	46	45	45	44	44	43	43	43	42	42	41	41	40	40	40
48	48	47	47	46	45	45	44	44	43	43	43	42	42	41	41	40	40	40
56	55	54	54	53	52	52	51	51	50	50	49	48	48	47	47	46	46	46
56	55	54	54	53	52	52	51	51	50	50	49	48	48	47	47	46	46	46