

SolarEdge String Design Matrix

Single PhaseHome Hub + Battery/s

Model	W AC Rating	Max	S440/S500 Optimizers		S500B/S650B Optimizers		Strings	Max watts per string	Max array
		Oversizing	Min	Max	Min	Max			
SE5000H	5	300%	8	25	6	25	1, 2 or 3	6800	15000
SE10000H	10	220%	8	25	6	25	1,2,3 or 4	6800	22000

3 Phase Residential

Model	W AC Rating	Max	S500B/S650B Optimizers		S440/S500 Optimizers		Strings	Max watts per string	Max array
		Oversizing	Min	Max	Min	Max			
SE10K	10	133%	8	20	9	20	1, 2 or 3	6800	13300
SE10K-RWB48	10	200%	14	50	16	50	1 or 2	13500	20000

3 Phase Commercial with S1000 Optimiser

Model	W AC Rating	Max	S1000 Optimizers		PV Modules		Max watts per string	Max watts 2+ strings	Min array watts	Max array watts
		Oversizing	Min	Max	Min	Max				
SE15K	15	135%	14	30	27	60	13950	18950	-	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

3 Phase Commercial with S1200 Optimiser

Model	W AC Rating	Max	S1200 Optimizers		PV Modules		Max watts per string	Max watts 2+ strings	Min array watts	Max array watts
		Oversizing	Min	Max	Min	Max				
SE15K	15	135%	14	30	27	60	15500	20500	-	20250
SE17K	17	135%	14	30	27	60	15500	17250	11000	22950
SE25K	25	175%	14	30	27	60	15500	17250	11000	43750
SE30K	30	175%	15	30	29	60	17000	19250	11000	52500
SE33.3K	33.3	175%	15	30	29	60	17000	19250	11000	58275

3 Phase Commercial with S1400 Optimiser

Model	W AC Rating	Max	S1200 Optimizers		PV Modules		Max watts per string	Max watts 2+ strings	Min array watts	Max array watts
		Oversizing	Min	Max	Min	Max				
SE15K	15	135%	14	30	27	60	18600	28600	-	20250
SE17K	17	135%	14	30	27	60	18000	28000	11000	22950
SE25K	25	175%	14	30	27	60	1800	20250	11000	43750
SE30K	30	175%	15	30	29	60	18600	20850	11000	52500
SE33.3K	33.3	175%	15	30	29	60	18000	20250	11000	58275

Inverter	BAT10K	BAT5K	BUI	Backup Function	DC Oversizing	ModBus	Inline Meter	EV Charger	Load Controller	Smart Switch
Home Hub SE10000H	Yes	No	Yes	Ø, 2Ø* & 3Ø*	220%	Yes (Inbuilt)	Yes	Yes	Yes	Yes
Ø Residential Backup Hybrid	1-3 in parallel		Ø Backup	(*) via PPBS		1 * 70A CT	via ENET	via WiFi / RS485 LAN	via ENET	via ENET
Home Hub 3Ø SE10K-RWB	No	Yes	Yes	3Ø	200%	Yes	Yes	Yes	Yes	Yes
3Ø Residential Backup Hybrid		1-5 in parallel	3Ø Backup incl. Inline Meter			3 * 70A CT	via ENET (Inbuilt to BUI)	via WiFi / RS485 LAN	via ENET	via ENET
3Ø SE10K-AUB	Yes	No	No	No	135%	Yes	Yes	Yes	Yes	Yes
3Ø Residential non-Backup Hybrid	Connect 1					3 * 70A CT	via ENET	via WiFi / RS485 LAN	via ENET	via ENET

(*) PPBS denotes Polyphase Backup Switchboard