

ES-A US Inverter Selection Guide

Valid for ambient temperature range: -25°C to 45°C (At 45°C, assumed module temperature 80°C)

ES-A-210  
CEC Rating: 90.4%

			Kaco		SMA					Fronius										Xantrex					
			Blue Planet 2901xi	Blue Planet 3601xi	SB3000U S	SB4000U S	SB5000U S	SB6000U S	SB7000U S	IG2000	IG2500-LV	IG3000	IG4000	IG4500-LV	IG5100	IG Plus 3.0-1	IG Plus 3.8-1	IG Plus 5.0-1	IG Plus 6.0-1	IG Plus 7.5-1	IG Plus 10.0-1	GT2.8 (240 VAC)	GT3.3N (240 VAC)	GT3.8 (240 VAC)	GT4.0N (240 VAC)
Nom AC Rating:			3100	3900	3000	4000	5000	6000	7000	2000	2350	2700	4000	4500	5100	3000	3800	5000	6000	7500	9995	2800	3300	3800	4000
CEC Rating:			94.0%	93.5%	95.5%	96.0%	95.5%	95.5%	96.0%	93.5%	93.0%	94.0%	94.0%	93.5%	94.5%	95.5%	95.5%	95.5%	96.0%	95.5%	95.5%	94.0%	95.5%	95.0%	95.5%
Min Array Size:			2554	3231	2433	3227	4055	4866	5647	1657	1957	2225	3296	3728	4180	2433	3082	4055	4841	6083	8106	2307	2676	3098	3244
Max Array Size:			3649	4615	3476	4610	5793	6951	8068	2367	2796	3178	4708	5325	5971	3476	4403	5793	6915	8689	11580	3296	3823	4426	4634
STC Array Size	# Strings	# Panels																							
1680	1	8																							
1890	1	9																							
2100	1	10								X	X														
2310	1	11							X	X	X														
2520	1	12								X	X														
2730	1	13	X							X	X											X			
2940	1	14	X		X						X											X	X		
3150	1	15	X		X						X				X	X						X	X	X	
3360	1	16			X							X			X	X							X	X	X
3570	1	17				X						X				X							X	X	X
3780	1	18				X						X	X			X							X	X	X
3780	2	9	X	X																					
3990	1	19				X						X	X				X							X	X
4200	1	20				X	X										X	X						X	X
4200	2	10		X								X	X	X											
4410	1	21				X	X										X	X						X	X
4620	1	22					X											X							X
4620	2	11		X								X	X	X											
4830	1	23					X	X										X							
5040	2	12											X	X											
5460	2	13												X											
5880	2	14												X											
6300	2	15																							
6720	2	16																X	X						
7140	2	17																	X	X					
7560	2	18																		X					
7980	2	19																		X					
8400	2	20																		X	X				
8820	2	21																			X				
9240	2	22																				X			
9660	2	23																					X		
10080	3	16																						X	
10710	3	17																						X	
11340	3	18																						X	

The number of options shown is limited by the following formula for array size:

Maximum array size: (Array STC Watts) X (Module CEC Rating) X (Inverter CEC Rating) = Inverter AC Rating

Minimum array size: (Array STC Watts) X (Module CEC Rating) X (Inverter CEC Rating) = 70% X Inverter AC Rating

X = Strings may be too long at -25°C, only use this configuration to -10°C

X = Strings may be too short at 45°C, only use this configuration to 35°C (70°C module temperature)

