

ES-B US Inverter Selection Guide

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

ES-B-180

CEC Rating: 88.7%

			Kaco			SMA					Fronius										Xantrex				
			Blue Planet 1501xi	Blue Planet 2901xi	Blue Planet 3601xi	SB3000 US	SB4000 US	SB5000 US	SB6000 US	SB7000US	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)
Nom AC Rating:	1500	3100	3900	3000	4000	5000	6000	7000	2000	2350	2700	4000	4500	5100	3000	3800	5000	6000	7500	9995	2800	3300	3800		
CEC Rating:	94.0%	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%	94.5%	95.5%	95.5%	95.5%	96.0%	95.5%	95.5%	94.0%	95.5%	95.0%	
Min Array Size:	1259	2602	3291	2479	3287	4131	4957	5753	1688	1994	2266	3357	3797	4258	2479	3139	4131	4931	6196	8258	2350	2726	3156		
Max Array Size:	1799	3717	4701	3541	4696	5901	7082	8219	2411	2848	3238	4796	5425	6083	3541	4485	5901	7045	8852	11797	3357	3895	4509		
STC Array Size	# Strings	# Panels																							
1800	1	10	X																						
1980	1	11								X															
2160	1	12								X	X														
2340	1	13								X	X	X													
2520	1	14									X	X													
2700	1	15		X		X					X	X										X	X		
2880	1	16		X		X						X										X	X		
3060	1	17				X						X				X						X	X		
3240	1	18				X						X	X			X	X					X	X	X	
3420	1	19				X	X						X			X	X						X	X	
3600	1	20					X						X				X						X	X	
3600	2	10		X	X																				
3780	1	21					X										X						X	X	
3960	1	22					X										X							X	
3960	2	11			X								X	X											
4140	1	23					X	X									X	X						X	
4320	1	24					X	X									X	X						X	
4320	2	12			X							X	X	X											
4500	1	25					X	X									X	X						X	
4680	2	13			X								X	X	X										
5040	2	14												X	X										
5400	2	15												X	X										
5760	2	16													X										
5940	3	11													X										
6120	2	17																		X					
6480	2	18																		X	X				
6840	2	19																		X	X				
7200	2	20																						X	
7560	2	21																						X	
7920	2	22																						X	
8280	2	23																						X	
8640	2	24																						X	
9000	2	25																						X	
9180	3	17																						X	
9720	3	18																						X	
10260	3	19																						X	
10800	3	20																						X	
11340	3	21																						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)

