

# SUNERGY String Sizing & Array Configuration

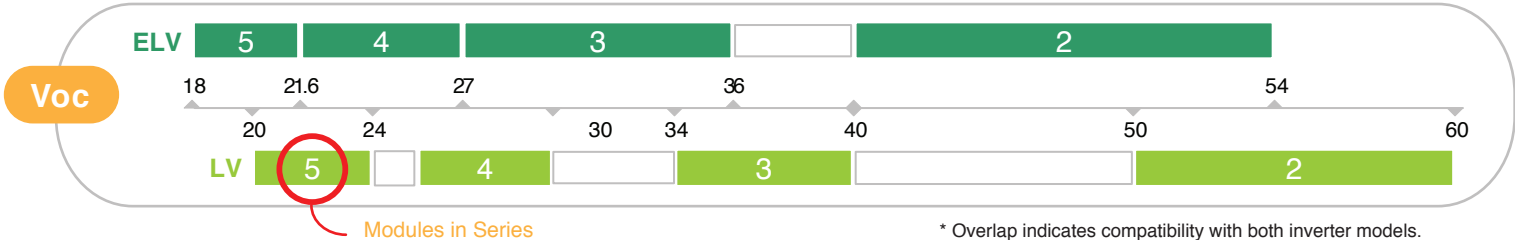
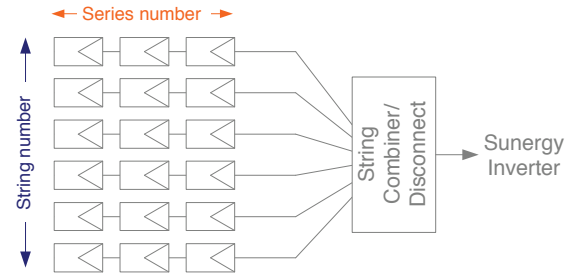
Module Type: Crystalline

Region: Canada/Northern US

## 1 Inverter Model and String Sizing

Select the open circuit voltage **V<sub>oc</sub>** from the PV module data sheet. Match the Voc rating in the chart below to determine the suitable SUNERGY inverter model (LV or ELV) and the number of modules in series.

ELV compatible  
  LV compatible  
  Out of range



## 2 Array Power Rating and Number of Strings per Inverter

Select the nominal PV power rating **P<sub>mp</sub>** from the PV module data sheet. Match the module power rating in the table with the number of modules in series to determine the number of strings per inverter and the peak DC array power rating per inverter.

P <sub>mp</sub>	5			4			3			2		
	Module Power	Power per String	Number of Strings	Array Power	Power per String	Number of Strings	Array Power	Power per String	Number of Strings	Array Power	Power per String	Number of Strings
140	700	8	5600	560	10	5600	420			280		
145	725	8	5800	580	9	5220	435	12	5220	290		
150	750	7	5250	600	9	5400	450	12	5400	300		
155	775	7	5425	620	9	5580	465	12	5580	310		
160	800	7	5600	640	9	5760	480	11	5280	320		
165	825	7	5775	660	8	5280	495	11	5445	330	16	5280
170	850	7	5950	680	8	5440	510	11	5610	340	16	5440
175	875	6	5250	700	8	5600	525	10	5250	350	15	5250
180	900	6	5400	720	8	5760	540	10	5400	360	15	5400
185	925	6	5550	740	8	5920	555	10	5550	370	15	5550
190	950	6	5700	760	7	5320	570	10	5700	380	14	5320
195	975	6	5850	780	7	5460	585	9	5265	390	14	5460
200	1000	6	6000	800	7	5600	600	9	5400	400	13	5200
205	1025	6	6150	820	7	5740	615	9	5535	410	13	5330
210	1050	5	5250	840	7	5880	630	9	5670	420	13	5460
215	1075	5	5375	860	7	6020	645	9	5805	430	13	5590
220	1100	5	5500	880	6	5280	660	8	5280	440	12	5280
225	1125	5	5625	900	6	5400	675	8	5400	450	12	5400
230	1150	5	5750	920	6	5520	690	8	5520	460	12	5520
235	1175	5	5875	940	6	5640	705	8	5640	470	12	5640
240	1200	5	6000	960	6	5760	720	8	5760	480	11	5280
245	1225	5	6125	980	6	5880	735	8	5880	490	11	5390
250	1250	5	6250	1000	6	6000	750	7	5250	500	11	5500
255	1275	5	6375	1020	6	6120	765	7	5355	510	11	5610
260	1300	4	5200	1040	5	5200	780	7	5460	520	10	5200
265	1325	4	5300	1060	5	5300	795	7	5565	530	10	5300
270	1350	4	5400	1080	5	5400	810	7	5670	540	10	5400
275	1375	4	5500	1100	5	5500	825	7	5775	550	10	5500
280	1400	4	5600	1120	5	5600	840	7	5880	560	10	5600
285	1425	4	5700	1140	5	5700	855	7	5985	570	10	5700
290	1450	4	5800	1160	5	5800	870	6	5220	580	9	5220
295	1475	4	5900	1180	5	5900	885	6	5310	590	9	5310
300	1500	4	6000	1200	5	6000	900	6	5400	600	9	5400