

# Panel Selection Guide

A Guide to finding the right panel combination for your MPPT solar solution.



Panel	Voc	Vmp	12V	24V	12V	24V	48V	12V	24V	12V	24V	48V
<b>"Battery Panel"</b>												
1x12vb	21	16							✓		✓	✓
2x12vb	42	32	✓		✓						✓	✓
3x12vb	63	48			✓	✓						✓
4x12vb	84	64			✓	✓						✓
1x24vb	42	32	✓		✓							✓
2x24vb	84	64			✓	✓						✓
<b>Grid Connect Panel (size per cells in grid)</b>												
1x18cg	10	8						✓	✓	✓	✓	✓
1x48cg	28	23	✓		✓					✓		✓
2x48cg	56	46			✓	✓						✓
3x48cg	84	69			✓	✓						✓
1x52cg	31	25	✓		✓							✓
2x52cg	62	50			✓	✓						✓
3x52cg	93	75			✓	✓	✓					✓
1x54cg	32	26	✓		✓							✓
2x54cg	64	52			✓	✓						✓
3x54cg	96	78			✓	✓	✓					✓
1x60cg	36	29	✓		✓							✓
2x60cg	72	58			✓	✓						✓
1x72cg	44	36	✓	✓	✓	✓						✓
2x72cg	88	72			✓	✓						✓
1x96cgsp	65	55			✓	✓						✓

Above is a list of a few of the possible combinations of the currently available solar panels available and their suitability with GSL MPPT Solar Chargers.

Minimum Vmp for all MPPT chargers are as follows:

For MPPT12-1 and MPPT12-2 :- For MPPT30-1, MPPT30-2 and MPPT60-1, MPPT60-2:-  
 17V for 12V Battery Charging      18V for the 12V Battery Charging  
 32V for 24V Battery Charging      36V for the 24V Battery Charging  
 72V for the 48V Battery Charging

Maximum Voltage for the BMPPT to safely operate is panel OC voltage no higher than the float rating of your battery.  
 i.e for 12V batteries a Panel OC no higher than 13.8V to prevent over voltage charging of battery.

