PLW with more than 30A Array installed

Wiring details

The PLW can accept up to 80A of connected array current but will only ever draw a maximum of 30A. For systems with more than 30A of installed array current, the following points may be useful:

1. Only install more than 30A of array if the open circuit voltage (Voc) of the entire array is 75V or less. Generally that means 2 X 60 cell (24V) modules in series. Please note however that if an array with 2x 72 cell (24V) panels or 4x 36 cell (12V) modules will be used, the total installed array current (Imp) must be less than 30A.

2.Array Isolators
It is practical to install a 30A isolator at the array even if the array is capable of producing more than 30A as long as a suitable fuse or circuit breaker is installed that protects the isolator. A good solution is to use an array isolator with a circuit breaker function. For example a suitably rated circuit breaker may be employed as an isolator at the array such as NoArk.

3.Array wiring
This must be sized to take the working current, but need not be rated for the installed array current so long as it is protected by a suitable circuit breaker or fuse at the array. In most cases 6mm^2 wire is suitable unless the wiring run is very long.

4.Switchboard PV isolators
The PLW has an isolator built in and it is not necessary to supply any other PV isolator at the switchboard.

Please feel free to get in contact with us on this number (+61-3-9486-9902) or support@plasmatronics.com.au if we can help.