

## Solar Charge Maximizer (SCM)

A SCM increases the current capacity of a MPPT Solar Charge Controller system by up to 3~10 times.

It works with the existing or new MPPT solar charge controller.

THE SKY IS  
THE LIMIT.



WH Engineering

o/a ENERPAK

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# Solar Charge Maximizer



*Packing Solar Energy  
for the Bright and Clean Future*



## With A Solar Charge Maximizer

- ◆ the solar array system capacity is no longer limited to the maximum current of a MPPT solar charge controller;
- ◆ the net-metering is not necessarily required for any Behind-the-Meter (BTM) solar projects;
- ◆ the solar array capacity is maximized in the ever changing solar radiation conditions; shading on one of the panels is no longer affecting the performance of all other panels;
- ◆ the solar power from a solar array may power the inverter or other DC load directly, only extra power will be stored in the solar energy storage battery or battery bank; the energy storage battery (such as LiFePo4 battery) is used to maintain the maximum power point, rather than to be charged;
- ◆ the heat generated inside the electronic components of a MPPT solar charge controller is minimized, and cooling fan is normally eliminated;
- ◆ the solar panel service life is extended, since high voltage potential induced degradation (PID) damage is minimized;

## The typical application of Solar Charge Maximizers

- **Commercial EV charging System:**  
A typical 25 KW solar array with EN-ERPAK solar charge controllers can support several level 2 EV charging stations, and one level 3 fast DC charging.
- **Off-grid power supply:**  
A solar charge maximizer 24VCN120A with a 60 amps MPPT solar charge controller will continuously support a 5.0KW solar array without components overheating in maximum solar conditions.
- **Commercial hybrid system:**  
The solar charge maximizer with MPPT solar charge controller and automatic transfer switch will supply power to **roof top equipment (RTUs)** to offset the high power demand during hot summer hours.
- **Residential hybrid system:**  
The solar charge maximizer supplies electrical power to appliances during the daytime when the cost of hydro power is high.
- **Remote community micro-grid:**  
The solar charge maximizer systems supply power to remote communities.

For more details, please visit:  
<https://www.enerpak.ca>



Any comments and inquiries are welcome, please visit: <https://www.enerpak.ca/contactus.html>



SCM is available for online purchase:  
<https://www.enerpak.ca/scm-online-store.html>

