

Apollo

- High Performance MPPT 16 amp charge controller
- Dual voltage 12 and 24 volt battery systems
- Up to 280 / 560 watts solar power input
- Good for systems with minimal shading mid day and is shade tolerant
- Panel voltage must be greater than battery voltage
- Up to 50% more power than PWM units with the same solar panel
- Uses 36, 54, 60, and 72 cell solar panels for 12 volts
- Uses 72 cell solar panels for 24 volts at 2 times the power of 12 volts

Example applications besides your house:



About Us:

Six years ago, my husband, Rob and I decided to build a small, completely off grid cabin near Jackson Michigan. So we did what everyone does now days and went online to obtain the necessary materials for this project, no problem right? That's what we thought anyway... boy were we Wrong.

So we started shopping, we found the Battery chemistry we wanted (Lithium Iron Phosphate)... no problem, the Inverters... no problem, Solar Panels... no problem, Charge Controller... ahhh... now we had a problem. The problem was that what was available did not meet our standards; they were either horribly inefficient, did not have MPPT (Maximum Power Point Tracking), the EMI noise (electromagnetic interference) was too high (Rob is a Ham Radio operator and this was really important to him), they were crazy expensive, or honestly... just plain garbage, or in some cases and worse yet... all of the above.

Rob, being an Electrical Engineer by trade, did what many engineers do when they can't find what they want... he decided to build a better mouse trap so to speak. So, he set out to design a charge controller that was: highly efficient, we do not use a heat sink so there is minimal loss of power due to heat loss. Low EMI or RFI (Radio Frequency Interference), cost effective and maybe most importantly that it have MPPT, or Maximum Power Point Tracking... Let's be honest, we're in [Michigan](#) one of the worst areas in the country to try to "do" solar power, so it was critically important that we be able to extract every last watt of power that the solar panels were capable of producing and that's exactly what a true MPPT controller like ours does.

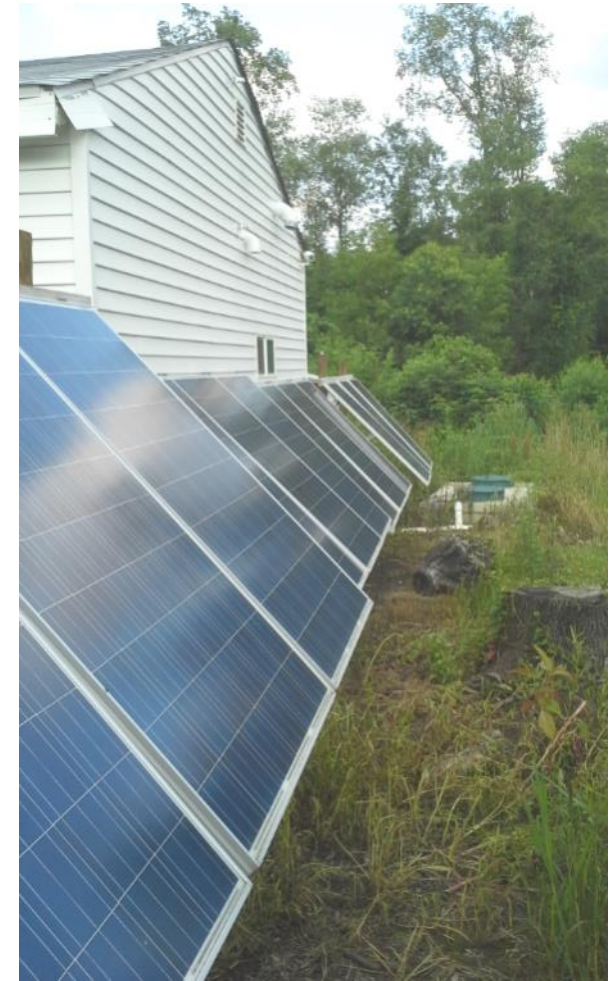
We built our cabin, pictured right and now 6 years later we have made some improvements, with our most current design including an LCD display that scrolls through 8 different readings that provide you with the information as to controller's performance for your system.

Our goal of trying to STAY GREEN became a reality and in the process it became an opportunity for us to open our own business together and offer what we feel is the best product on the market, all while still maintaining a reasonable price for others to be able to achieve the same goal that we had, of keeping the environment healthy for our kids and someday grand kids.

Best Wishes
Rob and Dawn

DIY Solar For U

Solar Charge Controllers

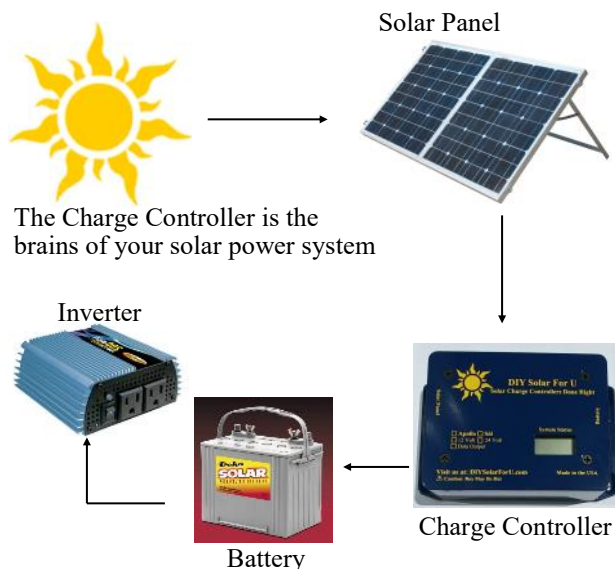


Solar Charge Controllers Done Right

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Family owned and operated

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Solar Power Simplified



Batteries,

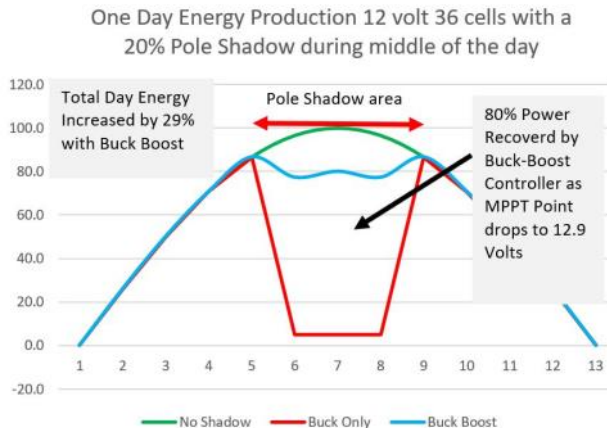
we recommend using LifePo₄, (Lithium Iron Phosphate, 4 cell batteries) for superior performance over any lead variant for the following reasons:

- 5-10 times the cycle life (2000 cycles)
- Flat discharge curve
- Near 100% energy return
- 100% depth of discharge tolerant
- Minimal voltage sag under load
- Full current even at 1% SOC (state of charge)
- AC Inverters produce more power with LiFePO₄ due to the higher voltage

When you factor in the fact that you are only supposed to utilize the top 1/3 of the available power with any deep cycle, SLA or AGM, you now need to have 3 times the total amp hours in batteries to be able to achieve the same number of useable amp hours that you would with the Lithium Iron Phosphate batteries. As a result, you will utilize 1/3 or less physical space and a fraction of the physical weight when using the Lithium Iron Phosphate as compared to any of the lead variants. When factoring in the above information any perceived cost savings of the lead variants is now gone.

Sól Solar Charge Controller

- High Performance Buck and Boost MPPT 18 amp charge controller
- Dual voltage 12 and 24 volt battery systems
- Up to 320 / 640 watts solar input
- Extends operation to 10 volts and up to 54 volt
- Greater shade tolerance due to seamless buck or boost operation
- Allows inexpensive 60 cell Panels on 24 volt systems
- Operates where Buck only controllers are not able to due to Boost capability



Comparison	Apollo	Sól
36 Cell Solar Panel	12 Volts Only	12 and 24 Volts
Shading Tolerance	Up to 2 Cells	Up to 10 Cells
60 Cell Solar Panel	12 Volt, Limited 24 Volts	12 and 24 Volts
Shading Tolerance	24 Cells @ 12V, 0 Cells @ 24V	Up to 30 Cells
72 Cell Solar Panel	12 and 24 Volts	12 and 24 volts
Shading Tolerance	22 Cells @ 12V, 5 Cells @ 24V	Up to 48 Cells
Start Voltage	18 volts	12 volts
Minimum Operating	15 volts	10 volts
Maximum Operating	50 Volts	54 Volts
Power Conversion	>98.5%	>99%
Maximum Solar STC	280 Watts / 560 Watts	320 Watts / 640 Watts
Maximum current	16 amps	18 Amps

Both Sól and Apollo

- Apollo works well for most systems that do not have a lot of shading during the day.
- Sól takes it a step further with added Boost Capability and higher power with 2 extra amps.
- Sól will extract power from heavily shaded panels where a buck only or PWM will not.
- Both Apollo and Sól operate as panel power optimizer's and increase system performance and twice the power on 24 volts
- Low nighttime draw less than .001 Amps
- **Made in USA**

LCD Scrolling Display Info.

b A t Battery Voltage

P A n Solar Voltage

A Output Amps

O u t Output Watts

P - P Peak Power in Watts

A - H Amp Hours Today

b - t Board Temperature (F)

b 1 2 Battery Detect **b 2 4**

Please Visit us Online at:

DIYSolarForU.com

For the most up to date product offerings and pricing.

If ordering 10 or more units please contact us for Special Pricing

Michigan Residents add 6% Sales Tax
Free Shipping on Orders over \$99.00

For your convenience we accept the following

