

Where to find materials for your Solar Car Project

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Solar Panels & Cells



Unbound Solar- <https://unboundsolar.com/>

SBM Solar - www.sbmsolar.com

SHENZHEN SHINE SOLAR CO., LTD - <https://www.shinesolartech.com/>

Maxeon (Sunpower) –Gen III (24 – 25.1% efficient) cells

<https://www.makeyoursolar.com/>

Amazon & Ebay

Aliexpress & Alibaba

Multi Point Power Tracker

(aka: MPPT, Power Tracker, Charge Controller)



POWER TRACKERS

Unboundsolar - <https://unboundsolar.com/>

MidNite Solar - www.midnitesolar.com

AERL - <https://www.aerl.com.au/products/coolmax-srx>

Genasun - <https://genasun.com>

Outback Power - <http://www.outbackpower.com>

Nomura Co - <https://www.facebook.com/NomuraCo>

Elmar - <https://www.prohelion.com/shop/mppt/elmar-solar-race-mppt/>

Victron - <https://www.victronenergy.com/solar-charge-controllers>

Batteries



Battery Guys- <https://batteryguys.com/>

Sun Xtender - www.sunxtender.com

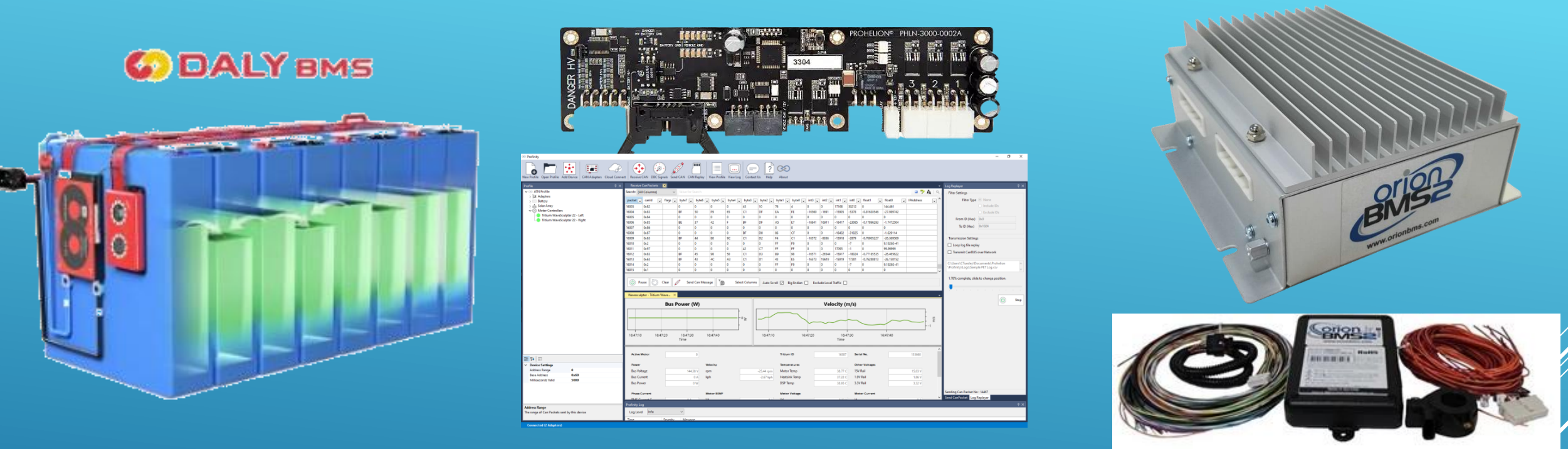
Battery Space - www.batteryspace.com

18650 Battery Store – <https://www.18650batterystore.com/>

EG4 Electronics– <https://eg4electronics.com/>

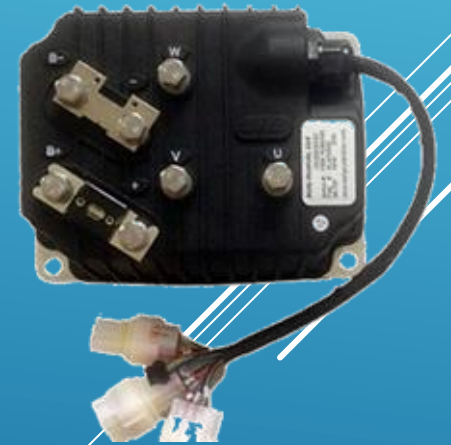
Liion Wholesale - <https://liionwholesale.com/>

Battery Management System



Prohelion BMS - <https://prohelion.com/product-category/battery-management-systems/>
Evolve Electrics - <https://evolveelectrics.com/collections/battery-management-system>
Daly BMS- <https://dalybms.com/>
Amazon – www.amazon.com
Ebay – www.ebay.com

Motors and Controllers



Cloud Electric – <http://www.cloudelectric.com>

Electric Motorsport - <http://www.electricmotorsport.com/>

EV Drives – <http://www.evdrives.com>

Thunderstruck Motors - <http://www.thunderstruck-ev.com/>

QS Motor (Hub Motor)- <http://www.qs-motor.com/>

Nomura Co (Mitsuba Hub Motor)– www.facebook.com/nomuraco

Switches, Disconnects, Lights, Fuses & Wire

SWITCHES / DISCONNECTS

For motor/array disconnects, most teams use Albright International ED250 (up to 48V) or ED250B (up to 96V).

Tecknowledgey - www.tecknowledgey.com

Electric Motorsport - www.electricmotorsport.com

Mouser Electronics - www.mouser.com

DigiKey - www.digikey.com

EV Drives - <http://www.evdrives.com>

Kimball Midwest - www.kimballmidwest.com



BRAKE LIGHTS & TURN SIGNALS

O'Reilly Auto Parts - www.oreillyautoparts.com

Grainger - www.grainger.com [for ECCO lights]

Etrailer - www.etrailer.com



FUSES

Electric Motorsport - www.electricmotorsport.com

Mouser Electronics - www.mouser.com

DigiKey - www.digikey.com

Grainger - www.grainer.com

Waytek - www.waytekwire.com

McMaster-Carr - www.mcmaster.com

Kimball Midwest - www.kimballmidwest.com



WIRING

Cloud Electric - <http://www.cloudelectric.com>

Electric Motorsport - <http://www.electricmotorsport.com/>

EV Drives - <http://www.evdrives.com>



Speedometer, Low Voltage Alarm, Volt/Amp Meter



SPEEDOMETERS

GPS Speedometer – www.speedhut.com
www.ebay.com

LOW VOLTAGE ALARM [12v]

12vtechnology- <https://12vtechnology.com/collections/battery-chargers-and-monitors>

RIGrunner - <http://www.westmountainradio.com/rigrunner.php> (fuse block w/ audible alert and 3 LED lights)

Battery Stuff - www.batterystuff.com

Volt & Amp Meters

www.ebay.com

Sprockets, Seats, Seat Belts, Brakes & Steering

CUSTOM SPROCKETS

Rocket Sprockets - www.rocketsprocket.net

Rebel Gears - <http://www.rebelgears.com/>

Supersprox - <http://www.custommotorcyclesprockets.com/>

SEATs & Seat BELTS

Summit Racing - www.summitracing.com

Motivational Tubing - www.motivationaltubing.com

Jegs - www.jegs.com

BRAKES

Martin Custom Products - www.mcpbrake.com

Motivational Tubing - www.motivationaltubing.com

Chassis Shop - www.chassisshop.com/

Aliexpress - www.aliexpress.com

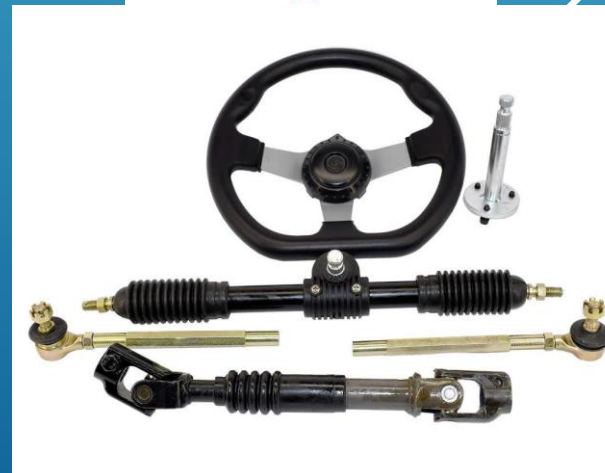
STEERING

Motivational Tubing - www.motivationaltubing.com

Chassis Shop - www.chassisshop.com

Go Power Sports - www.gopowersports.com

Aliexpress - www.aliexpress.com



Suspension, Wheels, Metal, Nuts, Bolts, Small Parts

SUSPENSION

ATV A-arm suspension – www.ebay.com

Chassis Shop – www.chassisshop.com

FOX – www.ridefox.com

Aliexpress – www.aliexpress.com



METAL for CONSTRUCTION – [go local if possible]

Online Metals – www.onlinemetals.com

QMF Steel – www.qmfsteel.com

Wicks Aircraft – www.wicksaircraft.com



NUTS/BOLTS/SMALL PARTS

McMaster-Carr – www.mcmaster.com

Kimball Midwest – www.kimballmidwest.com

Bolt Depot – www.boltdepot.com



WHEELS

www.summitracing.com

www.treatland.tv

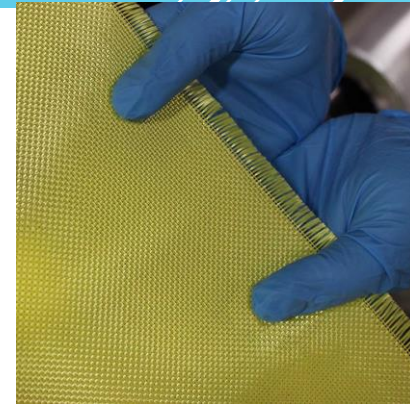
<http://shop.adapterkings.com> – they make adapters to go from ATV to Automotive



Composite Materials, Shrink Wrap, Foam



Shrinkfast™ Heat Gun #998



COMPOSITE MATERIALS

Express Composites - www.expresscomposites.com

Rock West Composites - www.rockwestcomposites.com

Fibre Glaz - www.fibreglast.com

Composite Envisions - www.compositeenvisions.com

Dragon Plate - www.dragonplate.com

ACP Composites - www.acpcomposites.com



SHRINK WRAP

Americover - www.americover.com

Big Shrink - <http://www.bigshrink.com>

Pro-Tect plastics - <https://shrinkwrapcontainments.com>

PLASTIC SHEETING

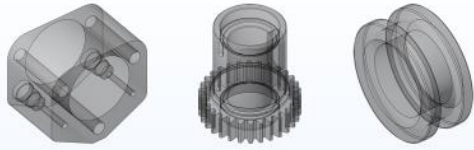
Eplastics - www.eplastics.com

US Plastics - www.usplastics.com

Professional Plastics - www.professionalplastics.com



Custom Fabrication on Demand



Xometry Instant Quoting EngineSM

Upload a 3D model to see instant pricing, lead time, and DFM feedback.

STEP | STP | SLDPRT | STL | DXF | IPT | 3MF | 3DXML | PRT | SAT files

Recent Uploads

Start a New Instant Quote

Spindle.SLDPRT v0 [Replace](#)

Feedback

Expedite	Standard	Economy
\$301.54 ea.	\$202.45 ea.	\$102.88 ea.
\$1,206.16	\$809.80	\$411.52
Made in USA	Made in USA	Made in China

Part Quantity

4

Process/Material

[Recommended Process for You](#)

[Learn about our materials](#)

Process

CNC Machining

Material

Steel 4130

Custom Fabrication

Xometry – www.xometry.com

CAD Programs

Solid Edge – <https://www.solarcarchallenge.org/challenge/resource.shtml> (Free for Solar Car Teams)

One Stop Shopping

amazon.com

The Amazon logo, featuring a curved orange arrow pointing from the 'a' to the 'z'.

ebay

Walmart

The Walmart logo, featuring a yellow six-pointed starburst icon.

Ordering From China

- **Extended Shipping Time**
(Give yourself plenty of lead time)
- **Incomplete or Wrong Parts**
- **Communication Barrier**
- **No Warranty**



AliExpressTM

Discounts

- Ask if they would be willing to sponsor the part or partially sponsor parts
- Ask for Free Shipping

Approved Vendors

- **Build Relationships with Locally owned businesses**

Questions?????

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