

# Charging deep-cycle U1s from car & inverter?

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I use a mobility scooter w/two group size U1 (pseudo?) deep-cycle (either AGM or gel) batteries: 12V, 32ah, wired in series.

On trips, away from AC, I need a way to recharge the batts [which can take up to 14 hrs after using the scooter for the day (don't know DOD), using the scooter's built-in 24V 3.5 amp charger, powered off of 110-120 VAC]

I'm also looking at this charger

<http://www.batterystuff.com/battery/soneil/soneil-24v8a.htm>

for faster (but not too fast) charge times, and as the primary charger, with the on-board charger relegated to backup

Would a good option be to simply use an inverter off the car's cigarette lighter, and then just plug one of the chargers above into it?

Will a modified sine-wave suffice or do I need a full-sine wave inverter? Recommended minimum wattage rating and brand names (saw Xantrex, APC (or APS?), and some other brands yesterday at a local Fry's)?

Hopefully I can turn the engine off, charge overnight from the car's battery (the charging system is in excellent condition), being careful to disconnect everything prior to switching the ignition off/on

The only other consumer I might have is a (still to be purchased) laptop, and the archives seem to recommend using the cigarette adapter plug-in directly (and not an inverter)

Any thoughts or other recommendations appreciated

Lance