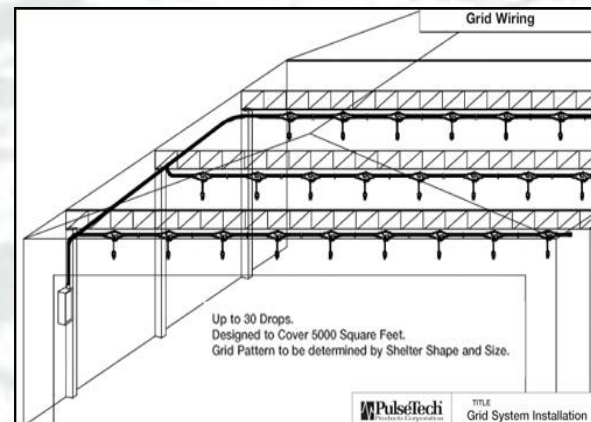


**Do you have Controlled Humidity Preservation (CHP) buildings?** Chances are if you have equipment in a CHP or any type of long term storage you are seeing a higher than normal consumption rate of lead acid batteries. **We have an option to consider that can make a huge difference in reducing battery consumption without the hassle of disconnecting / removing batteries, and even eliminates the need for periodic charging. Have you ever heard of a grid and reel system?**

**Grid System:** This is a flexible system that comes standard with everything needed to fit the shape / size of most standard buildings. Some specific features are:

- VAC to VDC power supply (with standard 3 prong plug), junction box, wiring, conduits, wire connectors, mounting hardware, drop chains, and much more.
- Input power required, 85-265 VAC, Output 30Vdc.
- Capable of supporting up to 30 drop down reels.
- Some buildings may require additional mounting hardware.



**Grid System**  
**NSN: 6130-01-497-0966**

**24-Volt Drop Pulse and Charge Reel:** Charges and maintains 24-Volt lead-acid batteries inside vehicles.

- Microprocessor controlled, monitors and charges as needed.
- Never overcharges, LEDs indicate charge status.
- Utilizes optimized high frequency Pulse Technology.
- Retractable 38' cable with a quick disconnect connection.
- 3 options for connecting to batteries:
  - Nato connection, Clamps, or bolt on lug connection.



**24V Drop Pulse Charge Reel**  
**NSN: 6130-01-497-0971**

**Both the Grid and Reels can be ordered via NSN (CLIX for Army users).** Contact your supporting FSR for more information on how to get installation support / costs, gear, spec sheets, number of systems needed for your buildings, etc. Examples below:



**Website: [WWW.PULSETECH.NET](http://WWW.PULSETECH.NET)**

**Online PulseTech Military catalog: <http://read.dmtmag.com/i/493915-2015-military-catalog>**

Did you know that TB 9-6140-252-13: Page 3 states, “Valve Regulated Lead-Acid (VRLA) and Absorbed Glass Mat (AGM) batteries have proven to be rechargeable multiple times from voltages as low as 0.24 VDC.” However, new / safe chargers will not engage very low VDC or dead batteries to ensure technician safety. This does not mean the battery is unserviceable, it just means the technician must take an additional step to “jump” start the process when appropriate. This process of engaging/charging dead, or almost dead batteries has been addressed in PS Magazine twice and is standard practice in our example SOP:

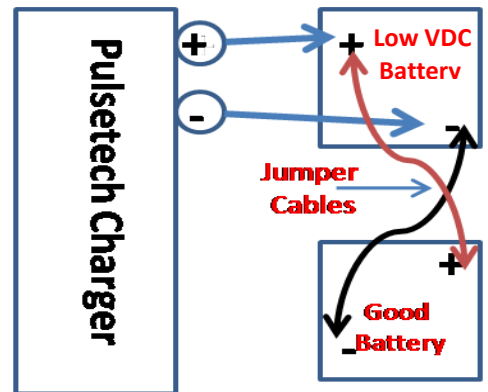
PS Mag #766, SEP 16 - Dead Batteries? Maybe Not?

PS Mag #742, SEP 14 - Trick Dead Batteries Back to Life

We 100% agree with this approach. Use it and you will recover some batteries that would not even turn a tester on!

So, how is it done? See example on right; hook the PulseTech charger to the dead battery and then jump the dead battery to a good battery or one that has enough VDC for the charger to engage. Let the charger engage for 15 – 20 minutes and then disconnect the good battery.

## Batteries in Parallel



Another thing that should be taken into account is the age of the battery when they are this depleted. Batteries that are less than 3 years old will have dramatically higher recovery rates than older batteries. Always attempt charge the newer batteries first, even if they have to be “jump” started!



Battery Ship date, usually very close to manufacture date.



6TAGM, Aug 2011 manufacture date.



Optima Batteries use a Julian date manufacture date.



2013, 209<sup>th</sup> day manufacture date, or 28 Jul 2013

**Reminder: On-site BMMP training and technical assistance visits are available to ALL Military organizations. Don't start from scratch, we also have a complete example battery maintenance SOP our FSRs can send you!** For questions about gear, specs, troubleshooting, or would like to discuss a training / assistance visit please contact your supporting FSR.

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FYI: The latest Battery Maintenance Management Program (BMMP) training slides, previous Newsletters, and other pertinent information is available on our website: <http://www.pulsetech.net/Content/Applications/Military-LP.aspx>

Website: [WWW.PULSETECH.NET](http://WWW.PULSETECH.NET)

Online PulseTech Military catalog: <http://read.dmtmag.com/i/493915-2015-military-catalog>