

## **Your Battery Maintenance Solution Source!**

**Summer 2019** 

We know that the military is transitioning to sealed AGM batteries, but we also know there are still a large amount of flooded batteries in use. A frequent question we receive is, "Are we authorized to add drinking water to fill up the cell on a flooded lead acid battery vs distilled water? The simple answer is YES, sometimes. TM 9-6140-200-13, Page 21-12 states, "Use distilled water in flooded lead-acid

batteries. In emergencies, a good grade of drinking water (excluding mineral waters) may be used..." What would constitute an emergency for a flooded lead acid battery? To us battery folks it is when the electrolyte level has dropped below the top of the plates, you need to roll out and don't have any distilled water. Adding a non-mineral drinking water would be better than leaving the battery with low fluid levels. Low fluid levels causes plate damage and leads to premature battery failure.



Low electrolyte level, top of battery plates are dry.

Update: DLA is now stocking a decent amount of PulseTech gear, and we are seeing dramatically reduced wait times (ESDs) for many items. Understand we addressed this in a previous newsletter but demand has still exceeded supply at DLA for some items. We know this has been a point of contention for many units, as we received several, "We love your gear, but the ship times suck" emails. Cannot guarantee how fast requisitions are filled (priority, RDD, etc. play a role), but being told at this point the long wait if ordering any of the below items and several more should be over.



BSES Kit NSN: 6130-01-541-9731



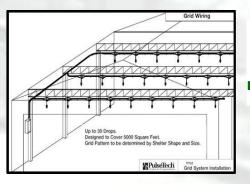
Pallet Charger NSN: 6130-01-532-7711



Pro HD Replacement Insert NSN: 6130-01-645-5003



World Charger NSN: 6130-01-477-4703



Long Term Storage Grid System NSN: 6130-01-497-0966

Drop Reels for Grid System NSN: 6130-01-497-0971





24V Solar Pulse Charge 6.3 Watt NSN 6130-01-558-5371 - NATO Slave \*NSN 6130-01-487-0035 - Hard Wired \* Includes an installation kit.

**Website: WWW.PULSETECH.NET** 



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Did you see the M1000 trailer solar application in June's PS Magazine (PS799, page 13)? This is a NOT a PulseTech solar application, and is a non-regulated panel for the APU which comes standard with the M1000s. Non-regulated means the panel does not have a logic circuit to turn off as needed. Good part is there are a couple PulseTech solar application options that can be used to replace the non-regulated one. The PulseTech panels are all microprocessor controlled and will not over charge a battery. The SP-3 will work great in areas that get a lot of sunlight, and the SP-7 in areas that see less sunlight.



SP-3 12V, 3 Watt NSN: 6130-01-388-0245



SP-7 12V, 7 Watt NSN: 6130-01-446-7154

BTW, we are not just making strides within the military at reducing lead acid battery consumption. Example: XPO Logistics did a case study using the SC-12 (civilian version of the Pallet Charger) to attempt recovery on some severely depleted batteries. They had already attempted to charge them on a regular charger, were deemed unrecoverable and headed to recycle. After placing them on a PulseTech Charger they were able to recover 10 of the 11 batteries! There was one with an unrecoverable bad cell. Yep, didn't happen fast but microprocessor controlled 25K Extreme High Frequency Pulses per second wins again!

Results:		Start	After 24-48 Use of SC-12	Start	After 24-48 Hour Use of SC-12
	Battery #	Voltage at Start	Voltage After 24-48 Hours	CCA at Start	CCA After 24-48 Hours
	1	12.27	13.09	912	1132
	2	12.28	13.12	1041	1264
	3	12.27	13.14	1058	1271
	4	10.76	13.14	0	659
	5	6.43	13.01	. 0	595
	6	10.6	12.93	4	639
	7	10.31	12.63	27	218
	8	4.9	13.27	0	806
	9	5.56	13.28	40	790
	10	5.51	13.28	0	797
	11	5.72	13.35	0	778

Reminder: <u>FREE</u> On-site BMMP training and technical assistance visits are available to <u>ALL</u> Military organizations in CONUS. For questions about gear, specs, troubleshooting, example battery maintenance SOP or would like to discuss a training / assistance visit please contact your supporting PulseTech Field Support Repetitive (FSR), contact info below.

## **Title / Locations / Units Supported:**

VP Military Programs, Eastern US, 2 MEF, International FSR, South Western US, Pacific, I and 3 MEF FSR, Central and SE US National Guard / Reserves

FSR, North Central / North Western US, Alaska

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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: <a href="https://www.pulsetech.net/support/product-literature/military.html">https://www.pulsetech.net/support/product-literature/military.html</a>

**Website: WWW.PULSETECH.NET**