

Energy for the Dismounted Soldier

Bren-Tronics, Inc. is known and recognized worldwide for designing the first Li-ion rechargeable military batteries in 1995. Users are today using less and less primary batteries and their confidence in the rechargeable technology has grown every year, first due to the fact that they have been able to experience their durability on the field and also because the generation of today's war fighters use rechargeable batteries in their everyday life.

Even though current rechargeable Li-ion batteries give satisfactory performance, it has been very clearly stated that the Future soldiers within 10 years will not be able to recharge their batteries at their support zone if they are in combat missions.

The 2025 Future soldier will need at least 48 hours of autonomy, and will not be able to change for charged batteries at the logistic support. It has been reported by officials that the logistic movements will not be undertaken if can be avoided. In Mali today, in order for war fighters to change their batteries, a logistic movement is needed and it involves an armed escort and associated vulnerability.

Consequently, the 2025 Future soldier will absolutely need highest available capacity batteries with centralized power and a recharging capability on the field (without the help of a vehicle).

Bren-Tronics anticipated the need for field recharging a number of years ago and are now able to provide different

chargers, that can be dedicated for one type of battery, or that can recharge different types of batteries at the same time utilising solar energy (Flex-Charger).

Each charger includes advanced features such as Solar Maximum Power Point Tracking, DC Vehicle capability coupled with simultaneous battery charging.

With over 12 years experiences in major Future Soldier Programs, Bren-Tronics offers a centralized battery for the dismounted soldier. These lead edge technology battery systems drastically reduce weight and optimize running time. Today, our unique 10.8V SMP® and 14.4V NETT+® rechargeable battery family offers the highest energy density possible (+212Wh/kg) for a true wearable soldier power system.

Moreover, Bren-Tronics's newest Advanced Battery Charger (ABC) can also be powered from solar energy, and weighs only 9 kg. For missions with a higher durability of 48 hours, such a universal charger is ideally suited for field use

Military power solutions must operate to the limits (or beyond). All Bren-Tronics products are designed, tested and manufactured to meet the most severe climate environment applications.

Bren-Tronics expertise remains focused where no one can compromise: safety, reliability and performance. ■

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