

APPLICATION SOLUTION

Using a P3 55W Solar Panel with a Military BB-2590 Battery

BACKGROUND

The Battery Branch of the Army Power Division which exists within the Communications-Electronics Research Development and Engineering Command (CERDEC) consists of approximately 20 electrical engineers, chemical engineers and technicians. The Battery Branch provides advanced battery and portable power solutions for the soldier, from low power applications for the dismounted soldier to integrated power management techniques for shelters and vehicles. Power solutions that come from the Battery Branch serve soldiers throughout the US Army.

THE CHALLENGE

The wide range of power applications served by the Battery Branch present a few consistent challenges. The soldiers need more power from smaller, lighter weight sources without sacrificing safety in any way. Soldiers are being issued increasingly more technology and need the means to power it without creating any logistics problems.

THE SOLUTION

The Battery Branch worked with Global Solar Energy to provide a power solution for charging the BB-2590, the Army's most widely used rechargeable battery and for AA batteries used for low-power devices and soldier's small personal electronics. The BB-2590 is charged with a P3 55W and a controller from Bren-Tronics. A new product was developed called AA Battery Solar Charger to charge two or four AA batteries while in the field. Both solutions are lightweight and provide rapid charge times for the soldiers.



FOR MORE INFORMATION

Global Solar works very closely with CECOM and the US Army's Rechargeable Battery Program. For more information contact Amber Kuhn at amber.kuhn@us.army.mil.

Global Solar Energy, Inc. manufactures flexible, foldable, lightweight solar panels using its Copper Indium Gallium DiSelenide (CIGS) solar technology. All solar panels are made in Tucson, Arizona USA.



G L O B A L S O L A R
Systems That Deliver