

Lithium-ion battery
solar re-charging kit
for military
applications

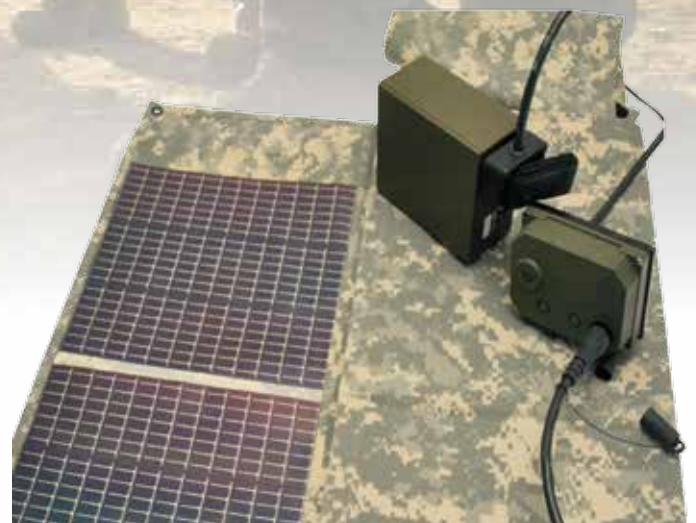
SOLAR RE-CHARGING KIT

THE DENCHI POWER SOLAR RE-CHARGING KIT KEEPS YOUR ARMY ON THE MOVE

To support the range of batteries and chargers in the field, Denchi Power has developed a Solar Re-Charging capability to give the soldier on the ground the maximum flexibility to re-charge batteries when either a vehicle or generator is not available. The powerful 60 Watt Solar Panel works in association with the successful Denchi Power Soldier Portable charger to ensure the maximum available power and so the shortest re-charge time.

The Solar Panel is so designed to fold and fit easily into the soldier's equipment and can be unfolded and brought into action very swiftly. Because of the flexibility of the Soldier Portable Charger, this system will work effectively under all climatic conditions, even if the sun goes behind clouds and the subsequent voltage drops. In sunny climates it has been found that the re-charge time is very equivalent to that of a standard charger. So the use of the Solar Panel reduces the demand for diesel and assists with the reduction of re-charging noise in forward positions.

This re-charging system joins the latest in a long line of successful Denchi Power products that have delivered powerful energy solutions to soldiers operating in active theatres. Denchi Power continues to develop the latest battery and charger technology to meet the evolving needs of military forces.



DENCHI
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SOLAR RE-CHARGING KIT

Part number: S21810 (Solar Panel) 231017 (SPC)
NSN: 6117-22-620-1674 (Solar Panel) 6130-99-269-2863 (SPC)

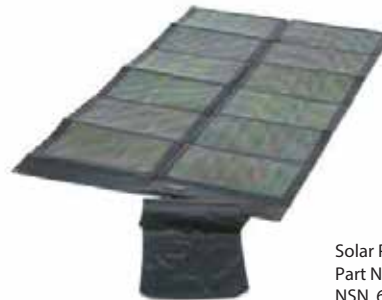
62Watt Solar Panel - use in conjunction with the Soldier Portable Charger (see separate data sheet for cables)

The 62 watt Portable Power Pack is a solar-energized power generator for your mobile power needs. Incorporating solid state, thin-film, solar cells, the 62 watt panel provides an excellent choice for applications that require lightweight, flexible, durable, silent power. Used in conjunction with the Denchi Power Soldier Portable Charger

SOLAR MAT SPECIFICATIONS

Technical Data:

Technology	Solar Re-Charger kit
Nominal Voltage Rating	12V /24V
Nominal Rated Power	62W
Nominal Rated Current	3.1A /1.6A
Open Circuit Voltage	28V /56V
Short Circuit Current	4.2A /2.1A
Power Temp Coefficient	0.6 °C
Voltage Temp Coefficient	0.5 °C
Power to weight ratio	44 watt/kg
Thickness	36 mm folded /2.5 mm unfolded
Width	216 mm folded/762 mm unfolded
Length	368 mm folded/1333 mm unfolded
Weight	1.41 kg



Solar Panel
Part Number S21810
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Features & Benefits:

- Robust and Lightweight
- Flexible tough design to withstand harshest condntions
- Works in association with highly successful Soldier Portable Charger
- Optimises charging with available climatic conditions
- Ideal for use in remote locations where diesel generators are not available
- Easily foldable – fits into Bergen rucksack side pouches
- Uses most modern photovoltaic chemistry
- Weather resistant – can be used successfully in any conditions

SPC SPECIFICATIONS

Technical Data:

Input Voltage Range	10.5-40V DC, 100-240V AC 50-60Hz (With optional AC adapter)
Operating Temperature	-40 °C to +60 °C
Efficiency	93% (nominal)
Max. Output Charge	6A
Length	115 mm
Width	83 mm
Height	43 mm
Weight	509 g
IP Rating	IP67
Application	Dismounted soldier



Soldier Portable Charger
Part No: 231017
NSN:6130-99-269-2863



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