

PORTABLE SOLAR MODULES UNI-PAC™ SERIES

- Power Ratings From 10.5W - 34W
- Lightweight & Flexible
- Folds To Book Size
- Virtually Unbreakable (No Glass)
- Shadow & High Heat Tolerant
- Delivers Up To 20% More Real Energy



UNI-SOLAR portable folding solar battery

chargers convert sunlight directly into electricity using UNI-SOLAR Triple Junction Technology. The portable PV-modules are extremely rugged, and their unique design makes them easy to carry and deploy.

The UNI-PAC can be dropped, stepped on, packed and re-deployed while continuing to operate. Designed to meet requirements for durability, performance and reliability, the UNI-PAC features a strong, long-lasting front cover made of ETFE.

Why Do UNI-SOLAR Products Outperform Others?

All solar panels are rated in terms of peak power output (watts). Outdoors, under normally higher operating temperatures, solar panel performance changes, depending on temperature, solar spectrum (light color) and related effects. UNI-SOLAR products are less affected by temperature than monocrystalline or polycrystalline solar technology products. The result is up to 20% more delivered energy.**

** Source Solfest, "Module Shoot Out"

Applications

- Battery Charging
- Military Applications
- On Location Charging For Photographers
- Hikers - Hunters - Climbers
- Portable Power For Field Radios, Mobile Phones, or GPS
- Emergency Power



MORE AMP-HRS.



FLEXIBLE



LIGHTWEIGHT



NO-GLASS



DURABLE



SHADOW TOLERANT



HIGH TEMP PERFORMANCE

Specifications

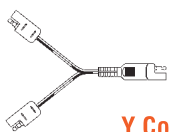
Model	UNI-PAC 30	UNI-PAC 15	UNI-PAC 10 When 12V	UNI-PAC 10 When 24V
Rated Power P _{MAX}	34	15.8	10.5	10.5
Max Power Point V _{MPP} (V)	17.6	17.6	17.6	35.2
Max Power Point I _{MPP} (A)	1.9	0.9	0.6	0.3
Open Circuit Voltage V _{OC} (V)	25.2	26.0	26.0	51.9
Short Circuit Current I _{SC} (A)	2.4	1.1	0.7	0.4
SAE Connector	Yes	Yes	No	No
Folded: Length x Width x Height (in./mm)	17x7x2 432x179x51	9.5x5.5x3 241x140x76	10x5x2 254x127x51	10x5x2 254x127x51
Opened: Length x Width (in./mm)	58x33.3 1473x845	47.5x28 1207x711	46x19.5 1168x495	46x19.5 1168x495
Weight (lbs./kg)	4.7/2.1	3.3/1.5	2.1/1.0	2.1/1.0
Warranty On Power Output	5 yr.	5 yr.	5 yr.	5 yr.
National Stock Number (NSN)	6130-01-482-3387	6130-01-482-3388	6130-01-482-3406	6130-01-482-3406



During the first 8-10 weeks of operation, electrical output exceeds specific ratings. Power output may be higher by 15%, opening voltage may be higher by 11% and operating current may be higher by 4%. Electrical specifications (±10%) are based on measurements performed at standard test conditions of 1000 W/m² irradiance, Air Mass 1.5 and Cell Temperature of 25°C after long-term stabilization. Actual performance may vary up to 10% from rated power due to low temperature operation, spectral and other related effects. Specifications subject to change without notice.

Accessories

- AP-1** Auto-plug for flexible panels (length 1 ft./305 mm; one end: cigarette lighter adapter, other end: 2-pin SAE connector)
- EC-10** 10 ft./3050 mm extension cable (2 ends : 2-pin SAE connector)
- FBC-2** Battery connector cable (length 2 ft./610 mm; end one : SAE connector, end two: 2 separate battery connectors, positive wire is fused.)
- YC-1** Y Connector allows you to connect up to two UNI-PAC 30's or two UNI-PAC 15's in parallel.



Y Connector
UNI-PAC 30 & 15 only

Product Description

Individual solar laminates within the UNI-PAC modules contain bypass diodes, making the UNI-PAC solar chargers tolerant of severe shadow or partial covering.

The tough nylon fabric covering of the UNI-PAC allows the unit to be folded to a convenient book size, for easy storage and transport.

The UNI-PAC 15 and UNI-PAC 30 are for 12V charging only. The UNI-PAC 10 can be used for 12 or 24V charging. They have a 2-pin SAE-connector; and a 2 ft. fused battery cable is packed in their pouch.

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