



Britannia 2000 Limited

Designers, Manufacturers & Integrators of Specialist
Surveillance Systems and Equipment

Solar Powered Generators

A range of solar power systems from 40~240 watt



UNI-PAK generators are available as unitized systems, or with detached solar module as shown

Features

- High quality construction throughout
- Five year warranty
- Minimal installation time
- Generous battery reserve
- Stainless mounting hardware included
- 20+ year design life
- 30 standard models
- 12V and 24V
- High efficiency crystalline solar modules
- Long life, deep cycle batteries
- All welded, heavy gauge aluminium enclosure
- Solid state controls
- High reflectance white powder coated finish
- Integral mounting brackets, horizontal or vertical mounting
- Assembled and tested prior to shipment

Description

The UNI-PAK is a high-quality, self contained solar power system designed to provide continuous, reliable power in remote or isolated locations. The UNI-PAK utilizes high efficiency solar electric modules to charge long life, deep cycle batteries. The batteries then provide steady, reliable power to the load with sufficient storage capacity to operate at night and during extended periods of cloudy weather. Solid state controls protect the batteries from overcharging and excessive discharge with LED indicators to show system status at a glance.

The UNI-PAK enclosure and array structure are fabricated from heavy gauge, aluminium for long life and superior corrosion resistance. The battery box is fully insulated and vented, and can be locked. The solar array is positioned to shade the battery enclosure during the summer, protecting the batteries from overheating, and is designed to withstand hurricane force winds. UNI-PAK generators integrate the highest quality components into a carefully engineered package designed to provide dependable power and years of trouble free service.



Custom UNI-PAK powers a large and satellite communications link flow meter



100W UNI-PAK powers an MDS repeater in Wyoming.



System installation is quick and enhanced reliability due to pre-assembly and easy, with pre-testing.



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Specifications

Solar Sizing Matrix

12V	UNI-PAK SOLAR SIZING MATRIX												24V
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	
40W	0.96Ah 40mA	1.92Ah 80mA	2.88Ah 120mA	3.84Ah 160mA	4.80Ah 200mA	5.76Ah 240mA	6.72Ah 280mA	7.68Ah 320mA	8.64Ah 360mA	9.60Ah 400mA	10.56Ah 440mA	11.52Ah 480mA	80W
50W	1.20Ah 50mA	2.40Ah 100mA	3.60Ah 150mA	4.80Ah 200mA	6.00Ah 250mA	7.20Ah 300mA	8.40Ah 350mA	9.60Ah 400mA	10.80Ah 450mA	12.00Ah 500mA	13.20Ah 550mA	14.40Ah 600mA	100W
60W	1.44Ah 60mA	2.88Ah 120mA	4.32Ah 180mA	5.76Ah 240mA	7.20Ah 300mA	8.64Ah 360mA	10.08Ah 420mA	11.52Ah 480mA	12.96Ah 540mA	14.40Ah 600mA	15.84Ah 660mA	17.28Ah 720mA	120W
75W	1.80Ah 75mA	3.60Ah 150mA	5.40Ah 225mA	7.20Ah 300mA	9.00Ah 375mA	10.80Ah 450mA	12.60Ah 525mA	14.40Ah 600mA	16.20Ah 675mA	18.00Ah 750mA	19.80Ah 825mA	21.60Ah 900mA	150W
80W	1.92Ah 80mA	3.84Ah 160mA	5.76Ah 240mA	7.68Ah 320mA	9.60Ah 400mA	11.52Ah 480mA	13.44Ah 560mA	15.36Ah 640mA	17.28Ah 720mA	19.20Ah 800mA	21.12Ah 880mA	23.04Ah 960mA	160W
90W	2.16Ah 90mA	4.32Ah 180mA	6.48Ah 270mA	8.64Ah 360mA	10.80Ah 450mA	12.96Ah 540mA	15.12Ah 630mA	17.28Ah 720mA	19.44Ah 810mA	21.60Ah 900mA	23.76Ah 990mA	25.92Ah 1080mA	180W
100W	2.40Ah 100mA	4.80Ah 200mA	7.20Ah 300mA	9.60Ah 400mA	12.00Ah 500mA	14.40Ah 600mA	16.80Ah 700mA	19.20Ah 800mA	21.60Ah 900mA	24.00Ah 1000mA	26.40Ah 1100mA	28.80Ah 1200mA	200W
120W	2.88Ah 120mA	5.76Ah 240mA	8.64Ah 360mA	11.52Ah 480mA	14.40Ah 600mA	17.28Ah 720mA	20.16Ah 840mA	23.04Ah 960mA	25.92Ah 1080mA	28.80Ah 1200mA	31.68Ah 1320mA	34.56Ah 1440mA	240W
140W	3.36Ah 140mA	6.72Ah 280mA	10.08Ah 420mA	13.44Ah 560mA	16.80Ah 700mA	20.16Ah 840mA	23.52Ah 980mA	26.88Ah 1120mA	30.24Ah 1260mA	33.60Ah 1400mA	36.96Ah 1540mA	40.32Ah 1680mA	280W
150W	3.60Ah 150mA	7.20Ah 300mA	10.80Ah 450mA	14.40Ah 600mA	18.00Ah 750mA	21.60Ah 900mA	25.20Ah 1050mA	28.80Ah 1200mA	32.40Ah 1350mA	36.00Ah 1500mA	39.60Ah 1650mA	43.20Ah 1800mA	300W
160W	3.84Ah 160mA	7.68Ah 320mA	11.52Ah 480mA	15.36Ah 640mA	19.20Ah 800mA	23.04Ah 960mA	26.88Ah 1120mA	30.72Ah 1280mA	34.56Ah 1440mA	38.40Ah 1600mA	42.24Ah 1760mA	46.08Ah 1920mA	320W
180W	4.32Ah 180mA	8.64Ah 360mA	12.96Ah 540mA	17.28Ah 720mA	21.60Ah 900mA	25.92Ah 1080mA	30.24Ah 1260mA	34.56Ah 1440mA	38.88Ah 1620mA	43.20Ah 1800mA	47.52Ah 1980mA	51.84Ah 2160mA	360W
200W	4.80Ah 200mA	9.60Ah 400mA	14.40Ah 600mA	19.20Ah 800mA	24.00Ah 1000mA	28.80Ah 1200mA	33.60Ah 1400mA	38.40Ah 1600mA	43.20Ah 1800mA	48.00Ah 2000mA	52.80Ah 2200mA	57.60Ah 2400mA	400W
240W	5.76Ah 240mA	11.52Ah 480mA	17.28Ah 720mA	23.04Ah 960mA	28.80Ah 1200mA	34.56Ah 1440mA	40.32Ah 1680mA	46.08Ah 1920mA	51.84Ah 2160mA	57.60Ah 2400mA	63.36Ah 2640mA	69.12Ah 2880mA	480W
Recom Autonomy	36 days	33 days	30 days	27 days	25 days	20 days	17 days	15 days	12 days	10 days	8 days	7 days	Recom Autonomy

Maximum loads are shown. A 15% safety factor is recommended. Upper number is total amp/hours/per day, lower number is continuous load in milliamps.

12 Volt Specifications

Size	Part No	Solar	Battery	Enclosure	Ship Wt
40W	UBP-40/85/12V	2.35A	85 Ah	13.25"L x 16.5"W x 13.25"D	163lbs
50W	UBP-50/98/12V	2.94A	98 Ah	13.25"L x 16.5"W x 13.25"D	175lbs
60W	UBP-60/110/12V	3.53A	110 Ah	13.25"L x 16.5"W x 13.25"D	187lbs
75W	UBP-75/160/12V	4.41A	160 Ah (80 x 2)	20.25"L x 16.5"W x 13.25"D	230lbs
80W	UBP-80/160/12V	4.71A	160 Ah (80 x 2)	20.25"L x 16.5"W x 13.25"D	230lbs
90W	UBP-90/196/12V	5.29A	196 Ah (98 x 2)	20.25"L x 16.5"W x 13.25"D	262lbs
100W	UBP-100/196/12V	5.88A	196 Ah (98 x 2)	20.25"L x 16.5"W x 13.25"D	277lbs
120W	UBP-120/220/12V	7.06A	220 Ah (110 x 2)	20.25"L x 16.5"W x 13.25"D	292lbs
140W	UBP-140/294/12V	8.24A	294 Ah (98 x 3)	28.25"L x 16.5"W x 13.25"D	349lbs
150W	UBP-150/294/12V	8.82A	294 Ah (98 x 3)	28.25"L x 16.5"W x 13.25"D	354lbs
160W	UBP-160/294/12V	9.41A	294 Ah (98 x 3)	28.25"L x 16.5"W x 13.25"D	353lbs
180W	UBP-180/392/12V	10.59A	392 Ah (98 x 4)	37.25"L x 16.5"W x 13.25"D	455lbs
200W	UBP-200/392/12V	11.76A	392 Ah (98 x 4)	37.25"L x 16.5"W x 13.25"D	455lbs
240W	UBP-240/440/12V	14.12A	440 Ah (110 x 4)	37.25"L x 16.5"W x 13.25"D	484lbs

