

SolarPack

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® SolarPack is a rugged, portable solar power system that can supply up to 600W of quiet AC power for fast-deployment, multi-day situations. The S1600 is ideal for communication and/or electronic equipment where reliable, high quality power is required.



Features

- Provides reliable, high-quality AC or DC current
- Compact, complete system to provide independent, clean and quiet power supply
- Rugged, weatherproof, wheeled case with stainless steel bearings and a retractable handle plus two side handles for efficient handling
- Modular, hot-swappable and easily scalable by adding extra modules
- Full Featured Battery Monitor
- Automatic overload shutdown, over-temperature and high surge protection, low voltage alarm and shutdown to protect total battery discharge
- Choice of sealed, low maintenance Lead-Acid battery or light-weight super long life Lithium battery
- 2 high-efficiency, 62W, foldable solar panels (expandable to 8 panels)
- Advanced 25A charge controller
- Efficient and rugged electronic inverter for either 120V/60Hz or 240/50Hz AC power
- Versatile connectivity allows easy use of 12VDC direct from battery
- System can be charged using solar power, 12V vehicle socket or grid powered battery charger
- 1 year warranty

Application Versatility

The SolarPack system is ideally suited and easily configured to provide power for many types of equipment that need high quality, reliable power in a rugged environment; such as: portable satellite antenna; office appliances in the field; or emergency response / checkpoint equipment such as LED arrays or VHF radios.

Run time

For a remote office complete with satellite connectivity (iNetVu® Flyaway antenna; 7000 Controller; Satellite modem; 3W BUC; Laptop computer; IP Phone) run time will vary depending on factors such as intensity of sunlight, equipment power requirements and usage discipline, however, the following should be attainable under the indicated conditions [in each case, starting with fully charged battery(s)]:

- 5 hours - on battery alone with little or no solar input (i.e., when panels are not deployed or in cloudy weather)
- 10 hours (a single, long working day) – 1 module with 2 solar panels properly deployed and monitored and uninterrupted, bright, direct sunlight

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Specifications are subject to change

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Battery (Lead-Acid)

Voltage	12VDC
Capacity	100 Amp/hr
Type	VRLA - Valve Regulated Lead Acid
Life Expectancy	Active - 200 cycles @ 100% discharge - 1,100 cycles @ 30% discharge Standby - 5 years

Battery (Lithium Phosphate)

Voltage	12VDC
Capacity	110 Amp/hr
Type	Lithium Iron Magnesium Phosphate
Life Expectancy	Active - 2,000 cycles @ 100% discharge - 30,000 cycles @ 30% discharge Standby - 12 years

Charge Controller

Nominal Capacity	25 Amp, MPPT (Multi Power Point Tracking)
Efficiency	97% @ 14 VDC, 20 Amp output

Solar Panel (Each)

Nominal Power	62W
Nominal voltage	12
Max. voltage	20VDC
Max. amperage	3.1 Amp
Length	133.5 cm (52.5") unfolded
Width	76 cm (30") unfolded
Thickness	0.254 cm (1") unfolded
Weight	1.5 Kg (3.3 lbs)

Inverter

Output Voltage	120VAC or 240VAC
Frequency	60 Hz or 50 Hz
Power (cont.)	600W
Surge Peak	860W
Waveform	Pure Sinewave
Configuration	Shelf-mount

DC power out

Voltage	12VDC
Amperage	15 Amp
Connection	Vehicle socket (female)

DC power in

(from vehicle socket or grid connected charger)	
Voltage	12VDC
Amperage	15 Amp

Physical (Base module)

Weight:	
with lithium battery	34.3 Kg (75.5 lbs)
with lead-acid battery	54 Kg (119 lbs)
Shipping weight:	
with lithium battery	36.7 Kg (81 lbs)
with lead-acid battery	56.4 Kg (124 lbs)
Dimensions	L: 50 cm (19"); W: 31 cm (12") H: 46 cm (18")
Temperature range	-5° to 60°C (23° to 140° F)

Physical (Inverter in case c/w cable)

Weight	9.5 Kg (21 lbs)
Dimensions	L: 56 cm (22"); W: 37 cm (14.5") D: 16.5 cm (6.5")
Temperature range	-5° to 35°C (23° to 95° F)

Shipping weights and dimensions

Battery Pack:	58 cm x 36 cm x 46 cm (23" x 14" x 18"), 56kg (124 lbs)
Cable Box:	38 cm x 38 cm x 8 cm (15" x 15" x 3"), 2.2 kg (5 lbs)
Inverter Box:	36 cm x 25 cm x 15 cm (14" x 10" x 6"), 3.6 kg (8 lbs)
SKB Inverter Case:	58 cm x 43 cm x 20 cm (23" x 17" x 8"), 12 kg (26 lbs)

Note: Performance of solar charging function depends on adequate exposure to sunlight
Standards Compliance; CE and FCC