Silicon CPV

5kW to 20KW PORTABLE RUGGED OFF-GRID RENEWABLE ENERGY POWER SOURCE

Key Benefits:

- Off Grid Power Solution
- Anytime anywhere
- Rugged – Portable
- Rapid Deployment
- Reliability
- Renewable Power
- Silent Operation

Entry Level Power Solution:

1. 5kW Silicon CPV Green box Controller with 6kWH battery bank

2. Solar array comprises 20 x 75W un- breakable bullet resistant PV panels providing 1.5kWp output

Scalability:

- 1.5kWp to 6Kwp Solar Array
- 5KW to 20 KW Inverter
- 6KWh to 24 kWh Battery

Applications:

- Military Operations
- Telecoms Bases
- Remote Power
- Disaster Recovery
- Emergency Power
- Refugee Camps
- Outdoor Events

Silicon CPV "Plug and Play" Rugged Mobile Solar Unit utilizes photovoltaic technology to provide local power generation for a wide range of remote off grid working environments, eliminating the fuel supply trail associated with traditionally deployed diesel generators.

These modular scalable units will operate in stand-alone mode, charging their on-board up to 24KWh battery bank via the solar panel array. The unit can also operate in co-generation with similar units or traditional diesel generators. This allows power generation to be scaled to meet the needs of any site. Each unit comes with unbreakable solar panel arrays with quick and simple to assemble mounting arrangement.

Portability

Encased inside the toughened outer shell, Silicon CPV's Ruggedised Portable solar power units are easily transported into any area of operations. The Ruggedised Power Solution Unit utilizes a photovoltaic array made using unbreakable bullet resistant PV Panels for power generation and contains very long life Lithium Battery energy storage technology to provide local power generation for remote off grid operations, eliminating the need for expensive diesel Generators.

Scalability

Pure Sinewave 230V power output from 5KW to 20KW with Lithium Battery Bank from 6KWh to 24KWh with life expectancy of over 5 years. Charge from Grid or from Rugged Solar panels of up to 6KW power. Noise and Pollution free, environmentally friendly power generation.

Rugged Renewable Energy Power Generator

- **5KW, 10KW, 15KW or 20KW** Power Output
- **6KWh, 12KWh, 18KWh or 24KWh** Lithium Long Life Battery Bank
- **1.5KW, 3KW, 4.5KW or 6KW** Solar Panels
- Can be used as UPS or Field Generator
- Single Phase 230V Clean Power
- Option to Charge from Grid
- 4 Strong Handles for fast deployment
- Heavy duty durable outer shell
- Shock mounted 8U, Standard 19" EIA rack width per EIA standards
- Removable front and rear doors are fitted with rubber gaskets for water resistant protection
- Units Stack Safely up 4 high
- Recessed heavy-duty twist latches
- Gross Weight (From 60kg to 120kg depending on configuration)
- Dimensions 1120mm x 580mm x 390mm (L x W x H)

Solar array - 1.5KWp to 6KWp

- 1.5kWp unbreakable bullet resistant PV Panels
- Solar array comprises 20 x 75W PV panels
- Individual PV Panel size 0.52m x 1.0m
- Rapid deployment
- Supplied in shock mounted 8U durable shell
- Gross Weight (approximately 90kg)
- Dimensions 1120mm x 580mm

Silicon CPV Ltd,
Akhter House, Perry Road, Harlow,
Essex CM18 7PN, UK
☎ +44 (0) 1279 821260
🖷 +44 (0) 1279 821300
enquiries@siliconcpv.com
www.siliconcpv.com

Silicon CPV Ltd, Africa,
7 rue Benzerte,
Rabat, Morocco
☎ +212 537 765 720
🖷 +212 537 765 720
enquiries@siliconcpv.com
www.siliconcpv.com

Part Code: Scalable Portable Off-grid Range Renewable Energy Power Source