

PORTABLE RUGGED DEPLOYED DATA CENTRE WITH INTEGRAL POWER SYSTEM

Key Benefits:

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

Entry Level Power Solution:

1. 2.4kW Silicon CPV Green box Controller with 6.0kWh battery bank
2. Solar array of up to 6 x 400W rapidly deployable solar panels

Features:

- 2.4KW Maximum load
- 6.0kWh Battery
- 240V AC outputs
- 24V DC outputs
- Genset control
- Charge through AC/Genset/Solar Array
- 10U rack space (387mm deep) or 5U (775mm deep)

Applications:

- Military Operations
- Telecoms Bases
- Networking Nodes
- Remote Power
- Disaster Recovery
- Emergency Power
- Mobile Data Center



The 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 the on-board battery bank via the solar panel array or from an AC power outlet. The unit can also turn on and receive power from traditional diesel generators. This allows power generation to be scaled to meet the needs of any site. Each unit comes with a solar panel array that are quickly and easily deployed for power generation and stored for transportation.

Portability

Encased inside the toughened outer shell, Silicon CPV’s Ruggedised Portable solar power units are easily transported into any area of operation. The Ruggedised Power Solution Unit utilizes a photovoltaic array that is lightweight and rapidly deployable 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 and noisy diesel generators.

Power Output

The unit delivers pure sinewave 230V AC power and 24V DC power (up to 100A) to meet a load of 2.4kW from the lithium battery which has a life expectancy of over 5 years. Noise and Pollution free, environmentally friendly ruggedised portable power generation.

Rugged Renewable Energy Power Generator

- **2.4kW** Maximum Power Output
- **6.0KWh** Lithium Long Life Battery Bank
- **Up to 6 x 400W** Folding Solar Panels
- Can be used as UPS or Field Generator
- Single Phase 230V AC/24V DC Clean Power
- Option to Charge from Grid
- 8 Strong Handles for fast deployment
- Heavy duty durable outer shell
- Shock mounted 10U (back-to-back 5U), Standard 19" EIA rack width
- Removable front and rear doors fitted with rubber gaskets for water resistant protection
- Units Stack Safely up 4 high
- Recessed heavy-duty twist latches
- Gross Weight (approx. 100kg)
- Dimensions 1130mm x 650mm x 510mm (D x W x H)



Solar array – Up to 2.4KWp

- 400Wp folding PV Panels
- Each Solar String comprises 3 x 400W PV panels
- Individual PV Panel size 630mm x 780mm (Folded)
- Unfolded PV Panel size 630mm x 2370mm
- Rapid deployment
- Supplied in shock mounted 8U durable shell
- Panel Gross Weight 16.25kg



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