

KUBE Technology™ Limited

Solar Solutions PNG

Power KUBE

*General summary of the **Solar Power KUBE** designed to provide;*

- **120 Volt or**
- **240 Volt**
- **3 Phase power supply**

Direct from Solar Power



Traditionally solar power has meant 12 volt or 24 volt power source with limited uses for lights and other smaller appliances.

NOT ANYMORE

KUBE Technology Power KUBE enables the remotest buildings to enjoy the full benefits of 110Volt, or 240Volt power. This enables the full use of appliances as if connected to the power grid.

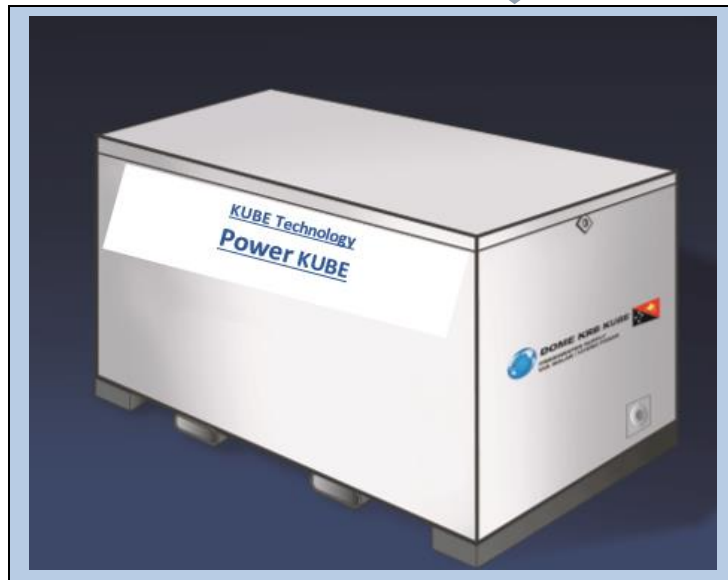
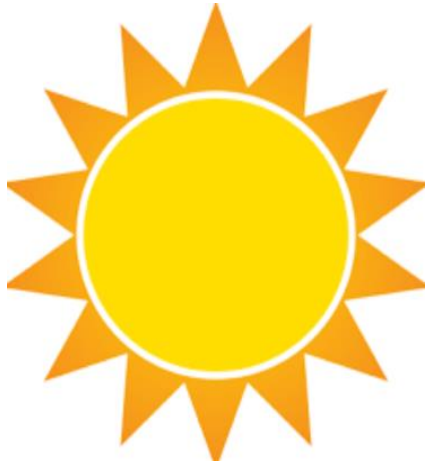
ADDITIONALLY

The Power KUBE can provide a 3 phase power source.

This enables full use of workshop appliances such as welders, drills and large electric motors.

This will revolutionize the services available in the remotest areas on earth.







Government Offices



Hospitals



Schools



Hotels/Lodges



Workshops

Remotely located buildings can now provide full services via a full array of appliances such as computers, lights, fans, air conditioners, and general appliances reliant on full voltage systems. Additionally Workshops can utilize 3 phase power to run welders, drills etc.

Power KUBE Components:

The Power KUBE is easily implemented with only two sections to the entire process.

- 1) 40- 250 Watt solar panels (10,000 Watts for 5kW systems) and associated racking/ground mount systems with PV wiring looms provided.,
- 2) The Power KUBE- is a fiberglass climate controlled housing system for security of the electrical components, Sine wave inverter, current converter and Lithium battery system.

Power KUBE is then located proximate to the building to be powered and is simply connected to the existing wiring systems via the fuse box OR buildings without can be wired to accommodate the required appliances and outlets.

Power Supply Options:

KUBE Technology is offering 3 base systems:

- 1) 3 kw (3,000 Watts) battery system
- 2) 5 kw (5,000 Watts) battery system
- 3) 8 kw (8,000 Watts) battery system

Units can be designed for specific use by simply adding battery and solar panels banks to the systems.

HOW MUCH POWER WILL IT SUPPLY?:

As an example the 5kW system will allow the following electrical demand.

DAYTIME USE:

During sun hours the over powered solar array will provide more power than the 5kW battery system can deliver. Therefore full use of general 240V appliances can be achieved. Use of air conditioners, washing machines, TV's, computers, fans, and all other general appliances can be utilized as in normal use on a power grid.

NIGHTIME USE:

The battery bank now determines the run time of appliances after general daylight hours. Based on a 5kW system a remote office or school, as an example, could utilize 3 fans, 6 standard lights, 3 computers, a TV, printer for 4 hours.

For remote locations without power this enables full use of buildings during normal working hours plus limited night time use- this revolutionizes potential economic growth abilities for off grid communities and developing nations.



Front, Side and Internal views of
Power KUBE



Performance and reliability:

KUBE Technology seeks the best equipment available to ensure the highest performance, reliability and longevity of our Power KUBE.

Our partnership with Lithionics, USA ensures the highest performance possible is achieved with the use of their Lithium battery systems. Steve Tartaglia of Lithionics has created, via the internationally patented BMS (battery Management System), the world's best lithium batteries.

Additionally all the system components such as solar charge controllers, sine wave inverters, and other electrical components are tested and developed to work in harmony enabling the best level of performance from each component of the entire Power KUBE systems.

Why Lithium?

Lithionics™ battery features include:

- 3 to 4 times longer life span (estimated 10 + years) – *maintenance free performance for a decade!*
- 5 times faster recharging capabilities than lead acid- *vital for solar recharging in cloudy environments*
- Lithionics™ have the only patent on individual cell variation charging and over charging control features
- Only environmentally rated battery in the world for disposal- *environmentally friendly*
- Only battery rated and approved for air freight- *logistically friendly*
- Even power discharge for 90% of battery capacity- *full use of battery without dimming lights*
- 4 times lighter than lead acid batteries- *logistically friendly*



Steve Tartaglia of Lithionics and Greg Cooper of KUBE Technology with the latest BMS/battery/technology systems utilized in the Power KUBE



BMS features: LVC Individual Cell Low voltage Cutoff at 95% or greater to prevent the battery from being over discharged. DVC Dead Voltage Cutoff to lock out the battery if 100% Depth of Discharge (DoD) occurs. HVC Individual Cell High Voltage Cutoff to prevent overcharging. High Temperature and Low Temperature protection Short Circuit Protection.

Pure Sine Wave Inverter:



Thank you for your interest in KUBE Technology's Power KUBE as a high performance reliable solution to providing full power supply capabilities to the remotest locations and developing nations on this planet.

Additional KUBE Technology Solar Systems:



KUBE Technology is the first in the world to develop solar powered **Reverse Osmosis units**.

Utilizing Solar Power only safe clean water can be produced in remote areas reliably.

1,000 to 13,000 litres per day from fresh water

1,000 litres per day from salt water



The **KOOL KUBE** is a solar powered refrigeration system that will hold one metric ton of food goods. Providing safe food for consumption or trade.



The **Klinnic KUBE** provides via solar power the only WHO rated Vaccine refrigeration system, medical supply storage, freeze dried food, manual water purification, fixed and portable solar lighting and appliance charging. It is a full service hospital system powered by the sun.



The **Charge Station** provides a reliable solar power source for the charging of KUBE solar lights, phones, radios and all other appliances with USB connectors.

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