Hybrid Power Solutions

POWER TOWER

OFF-GRID, SOLAR POWERED, FUME-FREE POWER SYSTEM & BATTERIES

With the Power Tower from Hybrid Power Solutions, getting off-grid has never been easier. Avoid rising electricity & distribution costs, underwater cable maintenance for island properties, and not to mention power outages that flood basements and spoil food. The Power Tower is the reliable, fuel-free power solution for your off-grid location

PLUG & PLAY UP TO 7 BATTERIES

THE POWER TOWER BASE

As a completely integrated system combining solar, DC to AC conversion, battery charging, grid bypass and automatic generator start, the Power Tower is a plug and play system like never before: it houses all electronics in one, elegant locking glass cabinet. Since all off-grid components are housed in one system, getting up and running is a simple as plugging in the batteries and your solar panels then wiring the output into your breaker panel. With an integrated Automatic Generator Start (AGS), even in the worst case scenarios, a backup generator can automatically be started when the batteries hit a critical level. The Power Tower is packed with features. With battery chemistries commonly used mining and industrial applications, the system is robust, safe and reliable.

Designed with off-grid living in mind, the Power Tower offers 6000 W continuous power and up to 18,000 W of peak power. Coupled with 3,500W of Solar MPPT charging capability, the Power Tower ensures you are never left out in the dark.

POWER TOWER SPECIFICATIONS

CONTINUOUS POWER OUTPUT	6,000 W
PEAK POWER OUTPUT	18,000 W
OUTPUT VOLTAGE	120 VAC
SINE WAVE	Pure Sine
AC INPUT	120 VAC up to 60A
BATTERY CHARGING FROM GRID/GENERATOR	Selectable up to 50A
SOLAR ARRAY POWER	3,500 W
MAXIMUM SOLAR INPUT	30 A
MAXIMUM SOLAR VOLTAGE	135 VDC
WEIGHT (KG)	75
DIMENSIONS (CM)	88 X 56 X 24.5

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THE POWER TOWER BATTERY

A key feature of the Power Tower is the expandable battery system. Every base kit comes with one 3.98 kWh lithium battery but can be expanded to up to 7 allowing for almost 28 kWh of battery storage. Not only are these batteries expandable but are plug and play right into the Power Tower base.

Featuring locking casters, folding handles and mounting tabs, the batteries can be placed wherever best. They feature a built-in screen that displays battery voltage, power consumption, amperage and time left until fully charged or fully discharged. The use of LiFePO4 batteries ensures a safe and long-lasting energy storage system that weighs 3 times less and takes up 3 times less space than lead acid batteries. Not only do the Power Tower batteries pair perfectly with the Power Tower, but they can also be used with any pre-existing 48 VDC system.

BATTERY SPECIFICATIONS

VOLTAGE	51.2 VDC
MINIMUM & MAXIMUM VOLTAGE	40 VDC to 58.4 VDC
AMP HOURS	78 Ah
USABLE ENERGY	3.98 kWh
SUGGESTED CHARGE CURRENT	20 A
MAXIMUM CHARGE CURRENT	100 A
MAXIMUM CONTINUOUS DISCHARGE CURRENT	100 A
PEAK DISCHARGE CURRENT (3 SEC)	200 A
CYCLES	3,500 at 0.5°C (100% DOD & 25°C & 80% remaining)
CYCLES	10,000 (@80%DOD per cycle & 80% remaining @0.2C)
WEIGHT (KG)	60
DIMENSIONS (CM)	46 X 36 X 27
CHARGE TEMPERATURE	0° - 60 °C
DISCHARGE TEMPERATURE	-20 - 45 °C

Plug and Go

Safe

Noise Free

Long Lasting

KEY FEATURES

- **Automatic generator start:**
The common twist lock input for generator or grid tie allows for quick easy install and high powered 120V capability
- **Ultimate off-grid set up:**
MPPT solar charger removes reliance on the grid
- **Expandable:**
Plug and play battery system allows for up to 7 Power Tower batteries in parallel. It features 5 battery ports (expandable up to 15)
- **Easy to read and use:**
LCD Display on Power Tower and Batteries meaning you always know how much power you have to play with
- **Power Tower Batteries:**
Full 0-100% DOD (depth of discharge)
- **Safety Features:**
Numerous features to keep yourself and your cabin safe. Over-voltage, under-voltage, overcurrent protection with a 300A CSA rated fuse. Lithium Ion has a proven track record in some of the harshest environments including mining and transit.
- **Easy to move with secure locking:**
Power Tower Batteries feature locking casters for easy movement and bolt down tabs for wall or rack installation. The Power Tower Base is also lockable
- **Quick and easy installation:**
Grid/Generator bypass means this unit fits most off-grid locations

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