



VOLTstack[®]
Power Stations
BY **Portable**Electric

The Future of Power, Today

Portable Electric's VOLTstack® power stations are the solution you didn't know you needed. Powerful and built to industry standard, the VOLTstack® is the revolutionary clean energy alternative to traditional gas and diesel generators.

The most robust power station on the market, the VOLTstack® delivers reliable, instant, high torque power the moment you pull the trigger. With a lithium ion battery at its core, the VOLTstack® is a silent, emissions-free power solution that reduces cost and refocuses labour.



BENEFITS OF WORKING WITH VOLTSTACK®:



Reduce Costs

- Instant, high torque power, eliminating lag time and saving fuel costs
- Save \$20 per unit, per shift



Power Anywhere

- Use wherever and whenever you need it. Set it and forget it.
- Handles peak loads of 5kW+



Increased Safety

- Zero generator noise ensures better communication on the worksite
- Zero emissions means no health issues from toxic fumes

SUCCESSFUL USE CASES WITHIN CONSTRUCTION INCLUDE:

Labour & Logistics

- Better cable management
- Faster workflow with instant torque & power
- Enables early morning starts & setups
- Late night finishes
- Better communication
- No fuel costs, no need for fuel runs
- Use as a grid-booster when grid power is dubious

Health & Safety

- Eliminates health issues from generator-produced particulates
- Use in confined spaces
- Power overnight for asbestos fans

Equipment

- Hand tools
- Drills
- Pumps
- Riveters
- Saws
- Pressure Washers
- Air Conditioning

Security

- LED lighting at night
- LED lamps
- Security
- Charging



Data Analytics

- View your cost savings and GHG reductions in real time



Better Workflow

- Streamlined cable management and faster work with portable power
- Use where traditional generators can't go; enclosed spaces and close to personnel



Reduce Emissions

- Negate 55kg of CO₂ per 8 hour shift, with just two power stations



“These things were fantastic! I would not switch back to diesel for the applications for this, that or the other. I’ve already cut my PO for 10 units.”

- **Joe Anderson, Site Manager**

“So awesome. We used these at Coachella this year. 100 thumbs up!”

- **Ken Deans, Logistics Director**

“I took them on my standard duties and they worked great. They did the job better than diesel. Plugging them in was a breeze.”

- **Mike Johnson, Site Supervisor**

Portable Electric's VOLTstack® Equipment Run Times

Understanding DUTY CYCLE

Unlike traditional generators that provide power as long as they're burning fuel, the VOLTstack® delivers instant power on demand only when activated. It's a "pull" from the VOLTstack®, rather than a "push" from a traditional generator. Therefore when operating intermittent use tools, such as a circular saw, an estimate can be made for how often that tool is actuated; i.e. a tool's "duty cycle". This duty cycle estimate is made based on DEWALT tool use data, divided into 15 minute, 30 minute, and 45 minute per hour categories.

		CONSTANT LOAD		DUTY CYCLE	
		2k	5k	2k	5k
Battery (kWh)		2.8	5.6	2.8	5.6
System Eff (%)		90%	90%	90%	90%
Battery Capacity Usable (kWh)		2.52	5.04	2.52	5.04
Max Continuous Load (W)		2400	4800	2400	4800
Surge 3 Sec (W)		4500	5800	4500	5800

DEVICE	Power (W)	TIME (HH:MM)	TIME (HH:MM)	TIME (HH:MM)	TIME (HH:MM)
Battery Charger - 15 amp	380	6:30	13:00	N/A	N/A
Dehumidifier	650	4:00	7:30	N/A	N/A
Fan, Circulator - 20"t	106	24:00	47:30	N/A	N/A
Humidifier - 13 gallon	175	14:30	29:00	N/A	N/A
Forced Air Propane Heater - 85,000 BTU	500	5:00	10:00	N/A	N/A
Work Light - Quartz-Halogen	1000	2:30	5:00	N/A	N/A
Work Light - LED	96	26:00	52:30	N/A	N/A
Air Conditioning Unit	1000	2:30	5:00	N/A	N/A
Box Fan	200	12:30	25:00	N/A	N/A
Cell Phone	6	420:00	840:00	N/A	N/A
LED TV - 46"	200	12:30	25:00	N/A	N/A
Laptop	250	10:00	20:00	N/A	N/A
Computer	150	17:00	33:30	N/A	N/A
Radio	50	50:30	101:00	N/A	N/A

LOW LOAD DEVICES		15 Mins/Hr Use	15 Mins/Hr Use
Air Compressor - 0.5 HP	1000	2:30	5:00
Air Compressor - 1.5 HP	2200	1:00	2:30
Band Saw - 14"	1100	2:30	4:30
Bench Grinder - 8"	1400	2:00	3:30
Circular Saw, Heavy Duty - 8.25"	1800	1:30	3:00
Electric Line Trimmer - Heavy Duty 12	500	5:00	10:00
Reciprocating Saw	960	2:30	5:00
Microwave Oven (625 Watt)	625	4:00	8:00

MEDIUM LOAD DEVICES		30 Mins/Hr Use	30 Mins/Hr Use
Belt Sander	1200	2:00	4:12
Electric Chain Saw - 14", 2 HP	1100	2:30	4:30
Hand Drill - 0.5"	600	4:00	8:24
High Pressure Washer - 1 HP	1200	2:00	4:12

HIGH LOAD DEVICES		45 Mins/Hr Use	45 Mins/Hr Use
Electric Grill	1650	1:30	3:00



VOLTstack[®] 2k Unit

SPECIFICATIONS

RATED OUTPUT

Continuous output: 2,400W
Peak power (3sec): 4,500W

AC OUTPUT

120VAC Pure Sine Wave (THD < 3%)
60 Hz, Single Phase, 20A Continuous

CHARGING PORTS

AC Input: 1 x 125VAC 20 Amp receptacle (NEMA 5-15P type)
Solar Input: 2 x SUNstack[™] Connectors

CHARGING TIMES

1 x AC Input (120VAC, 1,200W): 2.5 hours
Solar MPPT Input (360W): 7.5 hours*
Combined Input (AC + Solar): 1.75 hours*
*Under optimal solar conditions

BOX MECHANICAL SPECS

Weight: 190 lb / 86 kg
Four wheel (two stationary, two swivel) 4" neoprene casters
Dimension of Unit incl. handles (L x W x H):
31" x 21" x 23" / 790mm x 550mm x 580mm

SAFETY

Non-Combustible Aluminum Enclosure
Conforms to UL STD 1640
Certified to CSA 22.2 # 14
Recommended storage temperature: 10°C - 30°C

STORAGE

2.8 kWh nominal
Battery Type: Lithium-Ion (LiFePo₄)
Lifecycles: 4,000 cycles to 80% capacity*
*Full charge/discharge at 1C, 25°C

OUTPUT CONNECTORS

2 x 125VAC, 20A Weatherproof Receptacles (NEMA 5-20R)
2 x 5 VDC, 2.4A USB Receptacles

USER INTERFACE

Surrounding protective handles with room to grip
Easy to use interface with 1-touch operating feature
Battery monitor with state of charge, wattage in/out
and operating & charging times
Resettable Input & Output Breakers

OPERATING CONDITIONS

Operating temperature (discharging): -20°C up to 50°C
Operating temperature (charging): 0°C up to 50°C
N.B. Power output derates by 1.8% per °C above 40°C

PROTECTION

Built in overcharge / over-discharge protection
Output protected against short circuit, overload,
overtemperature & over-voltage
Master System On/Off for Storage & Shipping

CARBON OFFSET EQUIVALENT

Offsets 10 kg of CO₂e for 8 hours operation



VOLTstack® 5k Unit

SPECIFICATIONS



RATED OUTPUT

Continuous output: 4,800W
Peak power (3sec): 5,800W

AC OUTPUT

120VAC Pure Sine Wave (THD < 3%)
60 Hz, Single Phase, 40A Continuous

CHARGING PORTS

AC Input: 2 x 125VAC 20 Amp receptacle (NEMA 5-15P type)
Solar Input: 2 x SUNstack™ Connectors

CHARGING TIMES

1 x AC Input (120VAC, 1,200W): 5 hours
2 x AC Input (120VAC, 2,400W): 2.5 hours
Solar MPPT Input (360W): 15.5 hours*
Combined Input (AC + Solar): 2 hours*
*Under optimal solar conditions

BOX MECHANICAL SPECS

Weight: 330 lb / 150 kg
Four wheel (two stationary, two swivel) 5" neoprene casters
Dimension of Unit incl. handles (L x W x H):
32" x 24" x 30" / 810mm x 600mm x 750mm

SAFETY

Non-Combustible Aluminum Enclosure
Conforms to UL STD 1640
Certified to CSA 22.2 # 14
Recommended storage temperature: 10°C - 30°C

STORAGE

5.6 kWh nominal
Battery Type: Lithium-Ion (LiFePo₄)
Lifecycles: 4,000 cycles to 80% capacity*
*Full charge/discharge at 1C, 25°C

OUTPUT CONNECTORS

2 x 125VAC, 20A Weatherproof Receptacles (NEMA 5-20R)
2 x 5 VDC, 2.4A USB Receptacles

USER INTERFACE

Surrounding protective handles with room to grip
Easy to use interface with 1-touch operating feature
Battery monitor with state of charge, wattage in/out and operating & charging times
Resettable Input & Output Breakers

OPERATING CONDITIONS

Operating temperature (discharging): -20°C up to 50°C
Operating temperature (charging): 0°C up to 50°C
N.B. Power output derates by 1.8% per °C above 40°C

PROTECTION

Built in overcharge / over-discharge protection
Output protected against short circuit, overload, overtemperature & over-voltage
Master System On/Off for Storage & Shipping

CARBON OFFSET EQUIVALENT

Offsets 15 kg of CO₂e for 8 hours operation






PortableElectric®

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