



**VOLTstack<sup>®</sup>**  
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 CO<sub>2</sub> 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 5 Sec (W)		3400	5800	3400	5800
Max Peak Surge (W)		5000	7000	5000	7000

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	10:00	20:00
Air Compressor - 1.5 HP	2200	1:00	2:30	4:00	9:00
Band Saw - 14"	1100	2:30	4:30	9:00	18:00
Bench Grinder - 8"	1400	2:00	3:30	4:00	9:00
Circular Saw, Heavy Duty - 8.25"	1800	1:30	3:00	5:30	11:00
Electric Line Trimmer - Heavy Duty 12	500	5:00	10:00	20:00	40:00
Reciprocating Saw	960	2:30	5:00	10:30	20:30
Microwave Oven (625 Watt)	625	4:00	8:00	16:00	32:00

MEDIUM LOAD DEVICES		30 Mins/Hr Use		30 Mins/Hr Use	
Belt Sander	1200	2:00	4:12	4:00	8:00
Electric Chain Saw - 14", 2 HP	1100	2:30	4:30	4:30	9:00
Hand Drill - 0.5"	600	4:00	8:24	8:30	16:30
High Pressure Washer - 1 HP	1200	2:00	4:12	4:00	8:00

HIGH LOAD DEVICES		45 Mins/Hr Use		45 Mins/Hr Use	
Electric Grill	1650	1:30	3:00	2:00	4:30



# VOLTstack<sup>®</sup> 2k Unit

## SPECIFICATIONS

### RATED OUTPUT

2.4 kW Pure Sine Wave Inverter  
(Surge rating: 3.5kW 5 sec, 5kW peak)

### AC OUTPUT

Single Phase 120V @ 20A for 1 hr Continuous

### AC CHARGING

1 x 120VAC 15 Amp receptacle (NEMA 5-15P type)  
Recharge time @ 10 Amps (120V) is 2.5 hrs

### DC CHARGING

Input: SUNstack<sup>™</sup> solar panel and cable supplied by Portable Electric

Max Operating Input Voltage PV: 150 VDC

Max Input Short Circuit Current: 30 Amps DC

### OPERATING CONDITIONS

Operating temperature (discharging): -20°C up to 50°C

Operating temperature (charging): 0°C up to 50°C

### BOX MECHANICAL SPECS

Weight: 190 lb / 86 kg

Four wheel (two stationary, two swivel) polymer casters

Dimensions (L x W x H):

Box - 30" x 18" x 23" / 76cm x 46cm x 58cm

Shipping - 32" x 21" x 25" / 81cm x 53cm x 64cm

### SAFETY

Non-Combustible Aluminum Enclosure

Conforms to UL STD 1640

Certified to CSA 22.2 # 14

Recommended storage temperature: 10°C - 30°C

### CARBON OFFSET EQUIVALENT

Offsets 20 kg of CO<sub>2</sub>e for 8 hours operation

### STORAGE

2.8 kWh (2.5 kWh usable)

Battery Type: Lithium-ion

### OUTLETS

2 x 120VAC 20 Amp Receptacles (NEMA 5-20R type)

1 x 20 Amp Circuit

1 x 5 VDC USB Receptacle



# VOLTstack® 5k Unit

## SPECIFICATIONS



### RATED OUTPUT

4.8 kW Pure Sine Wave Inverter  
(Surge rating: 5.8 kW 3 sec, 7 kW peak)

### AC OUTPUT

Single Phase 120V @ 40A for 1 hr Continuous  
(20A per circuit)

### AC CHARGING

2 x 120VAC 15 Amp receptacle (NEMA 5-15P type)  
Recharge time @ 30 Amps (120V) is 2.5 hrs, @ 15A (120V) is 5 hrs

### DC CHARGING

Input: SUNstack™ solar panel and cable supplied by Portable Electric

Max Operating Input Voltage PV: 150 VDC

Max Input Short Circuit Current: 30 Amps DC

### OPERATING CONDITIONS

Operating temperature (discharging): -20°C up to 50°C

Operating temperature (charging): 0°C up to 50°C

### BOX MECHANICAL SPECS

Weight: 330 lbs / 150 kg

Four wheel (two stationary, two swivel) polymer casters

Dimensions (L x W x H):

Box - 31" x 20" x 29" / 79cm x 51cm x 74cm

Shipping - 33" x 23" x 31" / 84cm x 58cm x 79cm

### SAFETY

Non-Combustible Aluminum Enclosure

Conforms to UL STD 1640

Certified to CSA 22.2 # 14

Recommended storage temperature: 10°C - 30°C

### CARBON OFFSET EQUIVALENT

Offsets 34 kg of CO<sub>2</sub>e for 8 hours operation

### STORAGE

5.6 kWh (5 kWh usable)

Battery Type: Lithium-Ion

### OUTLETS

2 x 120VAC 20 Amp Receptacles (NEMA 5-20R type)

2 x 20 Amp Circuits

2 x 5 VDC USB Receptacles







# PortableElectric®


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