



VOLTstack[®] Power Stations BY PortableElectric

VOLTstack[™] 5k
by PortableElectric[®]

TO OPERATE:

1. Ensure both Master Battery Buttons on back are illuminated & front breakers are on
2. Press On/Off Button on front, wait 7 secs
3. Green lights will illuminate
4. Plug and play!

TO CHARGE:

1. Plug cords tightly into charging ports
One plug charges in 5 hours
2. Orange lights will illuminate
3. You're charging!



The Future of Power, Today

Portable Electric's VOLTstack® power stations revolutionize how events are designed and powered. Capable of complementing or replacing loud, noxious gas and diesel generators, VOLTstack® delivers silent, emissions-free power to booths, tents and stages without any restrictions.

The VOLTstack® is a mobile power station, allowing greater utilization of space. It generates new highly visual and dynamic advertising opportunities for sponsors, advertisers and exhibitors, ensuring you design your event around your vision, not your power needs.

VOLTstack® has brought clean, reliable power and lucrative green marketing opportunities to events of all sizes, including Vancouver's Pride Festival, experiential marketers like Red Bull, festivals like Bass Coast, and conferences like the GLOBE Series Forum, to name a few.



SUCCESSFUL USE CASES WITHIN THE EVENTS INDUSTRY INCLUDE:

Advertising

- Off-grid advertising & sponsorship display
- Powered island-style advertising space
- Visual displays overnight
- More location flexibility
- Increased sponsorship opportunities
- Interconnection with green branding

Lighting

- Isolated lighting needs
- Works perfectly with LED lights
- Powers LED displays
- Lighting consoles

Point of Sale / Ticketing

- Powers ticketing stations
- ATMs
- New entrance location opportunities

Sustainable Focus

- Solar panels bring awareness to renewable power generation
- Sustainable branding increases marketing potential
- Co-branding opportunities with multiple organizations
- Green media opportunities

Event Design

- Power in emissions-sensitive locations
- New event layout opportunities through grid-free power
- New venue locations that would otherwise be inaccessible
- Powered island-style booths, kiosks & activations
- Zero cabling issues with distributed power
- Power in difficult terrain
- Isolated power needs
- Crowd intensive areas

Music

- DJ setups
- Speakers
- Sound mixing boards
- Instruments and amplifiers

Food & Drink

- Fridges and freezers
- Soft drink stations
- Beer taps

Communications

- Power wifi hotspots & telecommunications
- Charging stations for phones and electronics
- Powers iPads, laptops, computers, printers, LED TVs and more

Portable Electric's VOLTstack® Equipment Run Times

		2k mini	2k	5k	13k
	Battery (kWh)	2	2.8	5.6	55
	System Eff (%)	90%	90%	90%	90%
	Battery Capacity Usable (kWh)	1.8	2.52	5.04	49.5
	Max Continuous Load (W)	1800	2400	4800	12800
	Max Surge Rating 3 Sec (W)	-	3000	6000	25000
Device	Power(W)*	Time (hh:mm)	Time (hh:mm)	Time (hh:mm)	Time (hh:mm)
DISPLAYS					
LED Display (10mm Hi-Res) per m ²	208	8:30	12:00	24:00	238:00
LED TV (60")	70	25:30	36:00	72:00	707:00
LCD TV (60")	162	11:00	15:30	31:00	305:30
HEATERS					
Patron Heater E9	9000	N/A	N/A	N/A	5:30
Milkhouse Heater	1500	1:00	1:30	3:00	33:00
INFLATED STRUCTURES					
Arch Blower	600	3:00	4:00	8:00	82:30
Bouncy Castle	1000	1:30	2:30	5:00	49:30
FOOD & DRINK					
Portable Beer Tap (Kegeator)	120	15:00	21:00	42:00	412:30
Soda Machine (4 tap)	760	2:00	3:00	6:30	65:00
Kettle	1500	1:00	1:30	3:00	33:00
Microwave	625	3:00	4:00	8:00	79:00
Coffee machine	1750	1:00	1:00	3:00	28:00
Icecream Maker	1800	N/A	1:00	2:30	27:30
Freezer	700	2:30	3:30	7:00	70:30
Fridge	700	2:30	3:30	7:00	70:30
Cotton Candy Machine	1300	1:00	2:00	3:30	38:00
Popcorn Machine	1500	1:00	1:30	3:00	33:00
Toaster (4-slice)	1650	1:00	1:30	3:00	30:00
Panini Grill (Double grill)	3500	N/A	N/A	1:30	14:00
Griddle	1500	1:00	1:30	3:00	33:00
4 Ring Stove	4000	N/A	N/A	1:00	12:00
Deep-fat Fryer (3 litre)	2000	N/A	1:00	2:30	24:30
POINT OF SALE					
Cash Register	150	12:00	16:30	33:30	330:00
Barcode Scanner	10	180:00	252:00	504:00	4950:00
Receipt Printer	40	45:00	63:00	126:00	1237:30
ATM	230	7:30	11:00	22:00	215:00
COMMUNICATION					
Modem	25	72:00	100:30	201:30	1980:00
WiFi Router	20	90:00	126:00	252:00	2475:00
Laptop	200	9:00	12:30	25:00	247:30
Computer	150	12:00	16:30	33:30	330:00
Phone charger	10	180:00	252:00	504:00	4950:00
Radio	200	9:00	12:30	25:00	247:30
Printer	100	18:00	25:00	50:00	495:00
LIGHTING					
Work lights	500	3:30	5:00	10:00	99:00
LED string lights (100ft)	60	30:00	42:00	84:00	825:00
LED strips (100ft)	150	12:00	16:30	33:30	330:00
Fairy / Christmas lights (100ft)	160	11:00	15:30	31:30	309:00
Single bulb fixtures (incandescent)	60	30:00	42:00	84:00	825:00
LED Balloon light	632	2:30	4:00	8:00	78:00
Lighting console	200	9:00	12:30	25:00	247:30
SOUND					
Small Events [100 to 500 people]	250	7:00	10:00	20:00	198:00
Medium Events [500 to 1000 people]	1000	1:30	2:30	5:02	49:30
Large Events [1000+ people]	5000	N/A	N/A	N/A	9:30

These are estimated values. Please contact us for more information.

*Unless specified, taken from an average of multiple products of similar characteristics





VOLTstack[®] 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™ 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):

Unit incl. handles - 30" x 18" x 23" / 760mm x 460mm x 585mm

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 CO₂e 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 lb / 150 kg

Four wheel (two stationary, two swivel) polymer casters

Dimensions (L x W x H):

Unit incl. handles - 31" x 20" x 29" / 790mm x 510mm x 740mm

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 CO₂e 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





VOLTstack® 13k Unit

SPECIFICATIONS

RATED OUTPUT

13.6 kW Pure Sine Wave Inverter

AC OUTPUT

Split Phase 120/240V
Continuous 57A @ 240V
Continuous 100A @ 120V

AC CHARGING

J1772 EV Charge Handle (common): Charging time @ 30 Amps (240V) is 9 hrs
Three Phase: Charging time @60 Amps Nominal (208V) is 8 hrs

OPERATING CONDITIONS

Operating temperature (discharging): -20°C up to 40°C
Operating temperature (charging): 0°C up to 40°C

TRAILER MECHANICAL SPECS

Trailer Weight: 3000 lbs / 1360 kg
Single Axle
2 inch ball hitch
No trailer on-board brakes
Chassis grounding rod

SAFETY

QAI Special Inspection SPE 1000 CSA
Non-Combustible Aluminum enclosure

CARBON OFFSET EQUIVALENT

Offsets 85 kg of CO₂e for 8 hours operation

STORAGE

55 kWh Usable
Battery Type: Lithium-Ion

OUTLETS

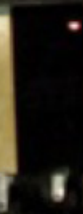
4 x 120V 20 Amp Duplex Receptacles (NEMA 5-15R type)
2 x 120/240V 30 Amp Twistlock receptacles (NEMA L14-30R)
1 x 120/240V Camlock Outlet – 50A total

USER INTERFACE

Touch screen interface & control
Onboard data graphing of power trends
Live viewing of battery data, including state of charge, time remaining and output power



Portable Toilet
Eco-Friendly
Eco-Friendly
Eco-Friendly



Vancouver Pride

The Challenge

Vancouver Pride is the biggest Pride Event in Canada. It required power for a diverse range of stakeholder demands over a huge event area, including stages, parade floats, booths and lights. But noisy, polluting gas generators were ruining the atmosphere of celebration.

I have been looking for the type of solution that Portable Electric offers for some time. I was always thinking that the noisy, smelly gas powered generators were taking away from our events. Portable Electric delivered exactly what they said they would - clean, portable power that worked.

- Bernard Leclair, Past Director of Vancouver Pride Society

The Solution

Bringing in VOLTstack®, the Vancouver Pride Society was able to provide reliable power to all areas with 100% efficiency. VOLTstack® produced no noise or fumes, allowing visitors and volunteers alike to enjoy a perfect day of fun and festivities. Solar panels recharged the unit even while in use, and ensured party-goers, city officials and stakeholders knew the event was powered by renewable energy.

Customer Success



Vancouver Sun Run

The Challenge

The Vancouver Sun Run is Canada's largest 10K road race, with over 40,000 participants. Event organizers wanted to create an atmosphere of fun, energy and healthy-living. However, traditional generators powering their installations were releasing harmful fumes and drowning out the sound speakers.

Portable Electric is the perfect replacement for a noisy gas generator. Working with gas generators outdoors has always been an issue trying to keep the stage volume above their noise. VOLTstacks are great in these situations as they produce no noise. Once the show is up and running you no longer notice they are there. I would highly recommend Portable Electric to anyone or business needing power supplies for outdoor events and concerts.

- Dallas Shea, Sound Technician, Vancouver Sun Run



The Solution

VOLTstack® power stations provided consistent, clean, silent power for installations around the event. Whether behind a food stand or beside the main stage, the organizers had the reliable power they needed without any emissions or roaring motors to overwhelm the sounds of a great event.

Success Stories



We were excited to welcome Portable Electric to help power our Blessed Coast Festival this year and in doing so, we were blown away!!! The level of stewardship the team holds over this incredible technology made the difference in smoothly running our sound and lighting off silent, efficient Renewable Energy. It was a miracle we had only dreamed of years ago.

**- Kybor Garner, Event Manager,
Blessed Coast**

Blessed Coast

The Challenge

Blessed Coast is a 3-day festival, blending concerts, yoga classes and art exhibitions. Branded as eco-friendly and situated in a remote, mountainous location, it required mobile, renewable and reliable power over an extended period.

The Solution

VOLTstack® brought Blessed Coast clean and consistent power. Monitored by an expert team, it used solar energy to supply emissions-free power across a huge area and throughout the multi-day event. No longer dependent on noxious gas generators, Blessed Coast could brand itself as a 100% clean, eco-friendly festival.



Vancouver Mural Festival

The Challenge

The Vancouver Mural Festival is the city's largest public art celebration, with over 80,000 people congregating in confined streets and alleyways. They therefore needed to find a way to eliminate noise and air pollution, while still delivering reliable power to food stands, booths and DJ tents.

Portable Electric is about to change the way festivals sound and smell forever. The inaugural Vancouver Mural Festival launched with 80,000 people celebrating on Main Street and one of the best parts of the event was the "festival staple" that was missing: stinky gas generators and rumbling motors behind every stage and food cart. Instead: quiet, clean power! Efficient and environmentally friendly! We look forward to the impending festival power revolution.

**- Andrea Curtis, Director of Operations,
Vancouver Mural Festival**

The Solution

VOLTstack® allowed the Vancouver Mural Festival to run flawlessly without the need for traditional loud, noxious gas generators. Emissions and noise-free, VOLTstack® units provided all-day power to the event, ensuring clean air and a fun, lively environment for visitors to stop and enjoy the magnificent art installations.




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