



VOLTstack[®] Power Stations

BY **Portable**Electric[®]

VOLTstack[™] 5k

by **Portable**Electric[®]

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 Burning Man, experiential marketers like Red Bull & Absolut, festivals like Chasing Summer, 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
- Connection 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, both large & small
- 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	5k	20k	20k
				N.A. Split Phase	N.A. Three Phase
	Battery (kWh)	2.8	5.6	80	80
	Max Continuous Load (W)	2400	4800	20400	17200
	Max Surge Rating 3 Sec (W)	4500	5800	30000	30000
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	12:00	24:00	471:00	471:00
LED TV (60")	70	36:00	72:00	1400:00	1400:00
LCD TV (60")	162	15:30	31:00	605:00	605:00
HEATERS					
Patron Heater E9	9000	N/A	N/A	11:00	11:00
Milkhouse Heater	1500	1:30	3:00	65:30	65:30
INFLATED STRUCTURES					
Arch Blower	600	4:00	8:00	196:00	196:00
Bouncy Castle	1000	2:30	5:00	109:00	109:00
FOOD & DRINK					
Portable Beer Tap (Kegeator)	120	21:00	42:00	816:30	816:30
Soda Machine (4 tap)	760	3:00	6:30	129:00	129:00
Kettle	1500	1:30	3:00	65:30	65:30
Microwave	625	4:00	8:00	157:00	157:00
Coffee machine	1750	1:00	3:00	56:00	56:00
Icecream Maker	1800	1:00	2:30	54:30	54:30
Freezer	700	3:30	7:00	140:00	140:00
Fridge	700	3:30	7:00	140:00	140:00
Cotton Candy Machine	1500	1:30	3:30	65:30	65:30
Popcorn Machine	1000	2:30	5:00	98:00	98:00
Toaster (4-slice)	1650	1:30	3:00	59:30	59:30
Panini Grill (Double grill)	3500	N/A	1:30	28:00	28:00
Griddle	1500	1:30	3:00	65:30	65:30
4 Ring Stove	4000	N/A	1:00	24:30	24:30
Deep-fat Fryer (3 litre)	2000	1:00	2:30	49:00	49:00
POINT OF SALE					
Cash Register	150	16:30	33:30	330:00	330:00
Barcode Scanner	10	252:00	504:00	4950:00	4950:00
Receipt Printer	40	63:00	126:00	1237:30	1237:30
ATM	230	11:00	22:00	215:00	215:00
COMMUNICATION					
Modem	25	100:30	201:30	1980:00	1980:00
WiFi Router	20	126:00	252:00	2475:00	2475:00
Laptop	200	12:30	25:00	247:30	247:30
Computer	150	16:30	33:30	330:00	330:00
Phone charger	10	252:00	504:00	4950:00	4950:00
Radio	200	12:30	25:00	247:30	247:30
Printer	100	25:00	50:00	495:00	495:00
LIGHTING					
Work lights	500	5:00	10:00	196:00	196:00
LED string lights (100ft)	60	42:00	84:00	1633:00	1633:00
LED strips (100ft)	150	16:30	33:30	653:30	653:30
Fairy / Christmas lights (100ft)	160	15:30	31:30	612:30	612:30
Single bulb fixtures (incandescent)	60	42:00	84:00	1633:00	1633:00
LED Balloon light	632	4:00	8:00	155:00	155:00
Lighting console	200	12:30	25:00	490:0	490:0
SOUND					
Small Events [100 to 500 people]	250	10:00	20:00	392:00	392:00
Medium Events [500 to 1000 people]	1000	2:30	5:02	98:00	98:00
Large Events [1000+ people]	5000	N/A	N/A	19:30	19:30

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

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





VOLTstack® 20k Unit

SPECIFICATIONS

RATED OUTPUT

Three Phase: 17.2 kW*

(Optional Split Phase: 20.4kW*)

Max Surge Rating: 30 kW

*80% NEC derating rule for Three Phase

AC OUTPUT

Three Phase 120/208VAC (THD < 3%)

Pure Sine Wave, 60Hz, 60A Continuous

CHARGING TIMES

AC Input (Three Phase 208V 48A): 5 hours

AC Input (Single Phase 120V 48A): 14 hours

Solar MPPT Input (4 x 2400W): 9 hours*

(Optional J1772 EV charging Level 2: Max 30A 208/240V)

*Under optimal solar conditions

RATED OUTPUT

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

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

MECHANICAL SPECS

Trailer Weight: 5000 lbs / 2268 kg

2 inch ball hitch

Chassis grounding rod or plate

SAFETY

On board Class C fire extinguisher

QAI Special Inspection SPE 1000 CSA

Non-combustible aluminum enclosure

STORAGE

80 kWh nominal

Battery Type: Lithium-Ion (LiFePo₄)

Lifecycles: 4,000 cycles to 80% capacity*

*Full charge/discharge at 1C, 25°C

OUTPUT CONNECTORS

Three Phase

4 x 120V 20A duplex receptacles (NEMA 5-20R type)

2 x 208V 30A twistlock receptacles (NEMA L15-30R)

1 x 208V camlock outlet

CHARGING PORTS

AC Input

1 x 240VAC 50A twist-lock inlet (NEMA equivalent)

1 x 240VAC 50A, 3-pole, 4-wire twist-lock inlet (NEMA equivalent)

1 x 120/208VAC 50A Three Phase Camlock Inlets

Solar Input

4 x SUNstack™ Proprietary Connectors

USER INTERFACE

App-enabled wireless monitoring platform for real-time data, analytics, GPS & fleet management

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

CARBON OFFSET EQUIVALENT

Offsets 161 kg of CO₂e in 8 hours operation

PRELIMINARY



Portable-Electric.com

Scotiabank

Scotiabank

VOLTstack 5k
by Portable-Electric.com

CANADA RUNNING
SERIES

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.



Vancouver Sun Run

The Challenge

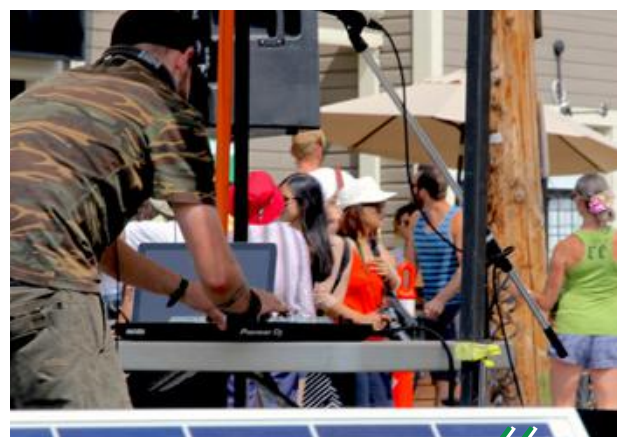
The Vancouver Sun Run is Canada's largest 10K road race, with over 40,000 participants. Event organizers wanted to create an atmosphere of fun, energy and healthy-living. However, traditional generators powering their installations were releasing harmful fumes and drowning out the sound speakers.

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



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.

PortableElectric®


THE FUTURE OF POWER.


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