



VOLTstack[®] Power Stations

BY **Portable**Electric



The Future of Power, Today

Portable Electric's VOLTstack® power stations revolutionize the way film productions are powered. With a proven track record on sets of all sizes across the world, VOLTstack® has brought clean, reliable power to Amazon's *The Man in the High Castle*, Netflix's *Altered Carbon*, Fox's *X-Files* and more.

Capable of complementing or completely replacing loud, noxious diesel generators, VOLTstack® delivers silent, emissions-free power that dramatically reduces cost. Zero cabling, zero noise and zero risk of property damage, just reliable power when you want it, where you need it. All guided by data-driven insights from our wireless, real-time energy management and GPS systems.

VOLTstack® power stations allow you to film in the most challenging environments, including noise and emissions-sensitive locations, remote sites and confined spaces. So you can design your set around your vision, not your power needs.



SUCCESSFUL USE CASES WITHIN THE FILM INDUSTRY INCLUDE:

Lighting/Electrics

Isolated power demands
Noise and emissions-sensitive locations
Reduces cable demand and refocuses manpower
Location background lighting
Battery charging

Locations

Silent power for noise-restrictive locations
Emissions-free power
Further solutions that foster good relationships with public
Overnight power needs
Problem solvers that provide quick, efficient solutions

Camera

Battery charging
Technocrane
Dollies
Digital Imaging Tech
360° panning shots requiring no visible cable

Catering / Crafty / First Aid / Hair & Make Up

2k and 5k units support early morning setups where noise restrictions apply, and 13k units are perfect for all-day power needs
Pre and post noise by-law applications
Overnight power – fridges

Environmental Safety

Reducing likelihood of required Fire Marshal presence
Permitting for dry areas like ranches, wildfire country & parks
Helps with spot checks & random inspections

Lights

- ARRI Skypanels
- Kino LED
- Kino Fluorescent
- LitePanels
- Cineo products

Set Dec

Tools
LED work lights
Battery charging
Laptops and electronics

Sound

Battery recharging
Sound mixer

Video Village

Reliable power in difficult locations
Powers monitors, WiFi, communications & battery charging

Construction

Tools
LED work lights
Batteries

Other Applications

Confined spaces

- Moving vehicles (buses, cars, boats)
- Elevators
- Underground parking lots
- Indoor spaces
- Top floor shoots in high-rise buildings

Environmentally sensitive areas
Hospitals

Portable Electric's VOLTstack® Equipment Run Times

	2k	5k	13k
Battery (kWh)	2.8	5.6	55
System Eff (%)	90%	90%	90%
Battery Capacity Usable (kWh)	2.52	5.04	49.5
Max Continuous Load (W)	2400	4800	12800
Max Surge Rating 3 Sec (W)	3000	6000	25000

Device	Power(W)	Time (hh:mm)	Time (hh:mm)	Time (hh:mm)
LED				
Cineo Matchstick	18	140:00	280:00	2750:00
Cineo Matchbox	13	193:30	387:30	3807:30
Cineo HS2	500	5:00	10:00	99:00
1x1 Astra LitePanel E Daylight/Bi-Color	30	84:00	168:00	1650:00
1x1 Astra LitePanel EP Daylight/Bi-Color	55	45:30	91:30	900:00
1x1 Astra LitePanel Daylight/Bi-Color/Tungsten	110	23:00	45:30	450:00
Kino Celeb 200	100	25:00	50:00	495:00
Kino Celeb 250	145	17:00	34:30	341:00
Kino Celeb 400	210	12:00	24:00	235:30
Kino Celeb 450	255	10:00	19:30	194:00
Kino Celeb 850	575	4:00	8:30	86:00
Kino 800 mA Fluorescent	75	33:30	67:00	660:00
Kino Select 30/20	150	16:30	33:30	330:00
Arri Skypanel S-30C	200	12:30	25:00	247:30
Arri Skypanel S-60C	420	6:00	12:00	118:00
Arri Skypanel S-120C	400	6:00	12:30	123:30
Arri Skypanel S-360C	1500	1:30	3:00	33:00
LED Light Sheet (18 x 9 segments)	100	25:00	50:00	495:00
LED Strip Light (5m Reel)	13	193:30	387:30	2750:00
CAMERA				
DIT Equipment	600	4:00	8:00	82:30
Video Village (Monitors/sound/charging)	800	3:00	6:00	62:00
Technocrane, Normal usage 20amp (continuous)	425	6:00	12:00	116:30
Fisher / Peewee Dolly (7 lifts per charge continuous)	425	6:00	12:00	116:30
TUNGSTEN				
150W pepper	150	16:30	33:30	330:00
300W Fresnel - Mole/Arri Brands	300	8:00	16:30	165:00
650W Fresnel (Tweenie)	650	4:00	7:30	76:00
1000W Fresnel	1000	2:30	5:00	49:30
2000W Arri T2	2000	1:00	2:30	24:30
2000W OpenFace (Blonde, Bluebell)	2000	1:00	2:30	24:30
5000W Arri T5	5000	N/A	N/A	10:00
10KW	10000	N/A	N/A	5:00
12KW Arri T12	12000	N/A	N/A	4:00
20KW Arri Mole Richardson	20000	N/A	N/A	N/A
24KW Arri T24	24000	N/A	N/A	N/A
HMI (BALLASTS)				
M8	800	3:00	6:00	62:00
M18	1821	1:00	2:30	27:00
M40	4000	N/A	1:00	12:00
M90	9000	N/A	N/A	5:30
ARRIMax 18	18000	N/A	N/A	N/A
18KW Silver Bullet Fresnel	18000	N/A	N/A	N/A



VOLTstack 5k
by Portable Electric

MovieBird



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-Electric.com
Rent green power for your event

User Experiences

As a Gaffer, I know the VOLTstacks are the future of generators, and are changing the industry we work in. We are now using more low powered LED lights, and now I can save on cable runs through positioning generators.

In every application we are finding new uses for them, from lighting, locations, sound, video, camera, grip and low loader work. Everyone is asking can I use VOLTstacks to power our sets/locations on recces. Productions are supporting the use of them due to them being silent, having no fuel costs and user friendly.

- **David Sinfield, Gaffer**
Bond 25, Aladdin, Wonder Woman



First we plugged one light in, checked the voltage on it, it was fine. And then we plugged in two, then we plugged in three and we ended up using eight lights. The 13k sat in the snow for three days and it never died on us once. I realize when I'm on a survey that I've got Portable Electric in my back pocket. For confined spaces, locations where you can't cable, places with noise restrictions, these make total sense. Portable Electric is what everybody needs, whether they know it or not, and it's the way the world is going.

- **Billy Baxter, Gaffer**
War for the Planet of the Apes, The Magicians

The VOLTstack is one of the most positive steps forward in movie sound in recent years. Since the very first film with sound, the noise of diesel generators has created problems for Sound Mixers recording actor's dialogue on location.

The VOLTstack is silent, meaning generators can be close to set, helping you hear the actor's original performance. All this while reducing harmful emissions. The VOLTstack is a win-win.

- Simon Hayes, Production Sound Mixer
Les Misérables, Guardians of the Galaxy, Prometheus

Portable Electric & Amazon's *Man In The High Castle* series brought our resources & mutual interests together to see how we could best integrate clean energy into film & television & to mitigate using solely diesel power generation. The ideal was to reduce our carbon footprint, fuel costs, noise disturbances etc. It has been an excellent learning & development process for both of us and we are really happy with the results.

The 5K proved useful in powering daylight splinter units, DIT downloading after camera wrap, dollies, techno 15, sound cart, short durations at crafty or catering truck etc.

The 13K was great for daylight scenes, or powering cranes & gear on water barges, big daylight establishments, downtown areas where generator placement was prohibited.

Next season we'd opt to lease 2-3 of the 5k units and rent the 13k on a daily or episodic basis. Looking forward to making film & television a more sustainable, green & clean industry.

- Yvonne Melville, Production Manager
Man in the High Castle, iZombie, Falling Skies

The Portable Electric generator was an invaluable addition to our gear. The advantage we had shooting with an electric generator was that it made no noise, so we were actually able to use it as late as we needed without bothering neighbors. We needed a lot of power, we had a large crew with several stations for Village, DIT, Video Playback, and we had large spaces we needed to light. The generator worked reliably and on one charge powered us for almost 2 days. I hope we can power all our sets with Portable Electric!

- Christopher Graham, Director
ExtraOrdinary Amy



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