

NEOVOLTA™

Smartest, Most Efficient Home Battery Today

✓ Zero Fire Risk

Lithium-IRON, Not ION

✓ Longest Battery Life

6,000 cycles, 16.5 years of life

✓ Fastest Installation

Less than a day to install

✓ Quality of Life

Larger Inverter Powers at least 14 circuits with grid outage

✓ Most Affordable

Best value in energy storage



99% 5-Star Reviews

"The best decision I've ever made."

- Glen W.





A Letter From The CEO

To Solar Installers of California,

My name is Brent Willson. In addition to being a concerned Californian, I'm a retired Colonel who served 30+ years in the United States Marine Corps. After some time at the Pentagon, where I headed a \$100 Billion aviation acquisition portfolio for the Department of Defense, I founded NeoVolta™ – a lithium-iron solar battery manufacturer focused on elevating the lifestyles of solar homeowners.

From the arrival of time-of-use (TOU) rates to NEM 3.0's effects on sell-back incentives, solar is ever-changing – and it's important to adapt to the environment.

Sell-backs for rapid ROI aren't as high on the priority list for many solar owners due to NEM 3.0 and energy security is quickly becoming top-of-mind as the risk of blackouts rises. Without a home solar battery to store energy from panels, homeowners will be left in the dark through those rolling blackouts and grid outages – which is why we built the NV14 battery. The NV14 provides peace of mind with always-on power for those looking for energy security and reliability, including those with medical devices that must be powered and professionals working from home offices.

NeoVolta™ is a public company and joined the NASDAQ in July 2022. We're also on the Russell Microcap Index, an esteemed performance benchmark for emerging U.S. companies. Although we're a publicly traded company, NeoVolta™ remains local, operating much like a family business would. As a result, our installers and their homeowner clientele reap the benefits of top-tier customer service and lightning-fast delivery that outperforms most solar competitors.

Discover how NeoVolta™ is helping installers gain another stream of income while tending to the evolving needs of your customer base.

The future is bright with NeoVolta™ – because the lights always stay on.

Thank you,

Brent Willson

The future is bright with **NEOVOLTA™** –
because the lights always stay on.



Time **Rate** Shifting

Battery power your home at night, when rates are most expensive, with the solar energy generated with your panels.



Lower Electricity Bill

Utility companies continue to raise rates, and with the introduction of time of use, homeowners must now leverage a home battery to control how and when they use solar energy to manage their energy expenses.



Superior Chemistry

With a 10-year warranty, our batteries are built with safer, longer-lasting lithium-IRON, not to be confused with lithium-ION.

Benefits to Home Owners

It's no question that home energy storage is a new priority for solar customers, causing a shift for panel-only solar installers driven by:

- NEM 3.0 greatly reducing sell-back rates and incentives
- The rising threat of rolling blackouts and grid outages

Now, homeowners have a different set of needs and goals when it comes to their solar systems: **security from power outages, and reduced reliance on the grid.**

By adding NeoVolta's NV14 solar battery to your sales offerings, you can usher your customers into an "always-on" lifestyle and offer a slew of major benefits:

You and your clients can both achieve solar-powered peace of mind with incombustible, long-lasting batteries that are easy to install. **This is our promise to you.**



See Why Mike Recommends
The NeoVolta Smart Home Battery




Blackout Protection

Always-on Power for critical medical devices & offices



Fireproof

Lithium-Iron composition is fireproof, unlike many lithium-ion competitors



Better Quality of Life

With 14-circuit allowance, more electronics can be kept on



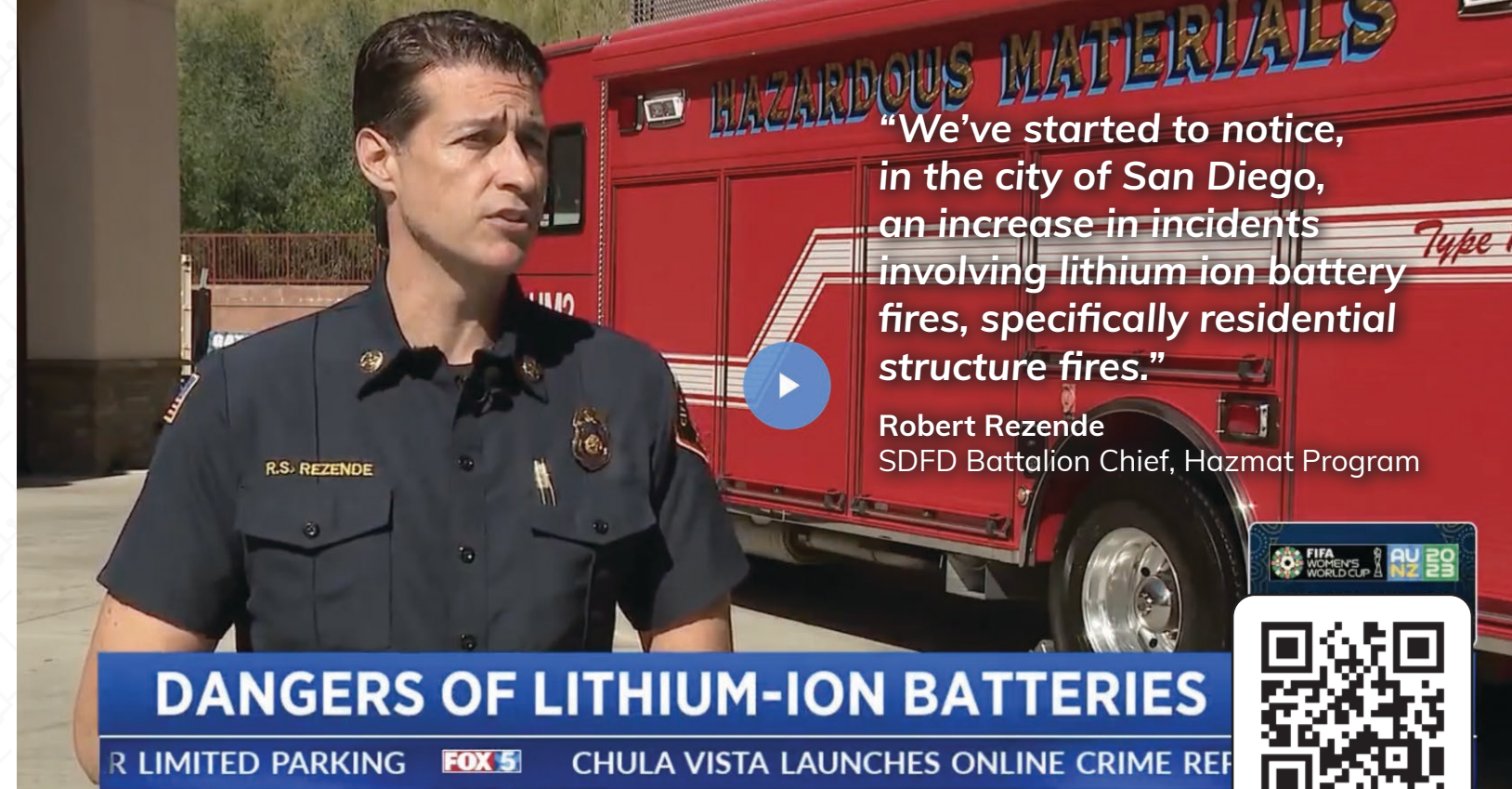
Return on Investment

Nix your customers' net metering rates and lower time-of-use costs



10 year warranty & No maintenance required

Powered by lithium-IRON, which can last up to 16.5 years




"We've started to notice, in the city of San Diego, an increase in incidents involving lithium ion battery fires, specifically residential structure fires."

Robert Rezende
SDFD Battalion Chief, Hazmat Program

DANGERS OF LITHIUM-ION BATTERIES

R LIMITED PARKING FOX 5 CHULA VISTA LAUNCHES ONLINE CRIME REP



Safer Than the Competition

Lithium-iron powered solar batteries, such as our NV14, offer a key benefit alongside their lengthy life cycles and hassle-free installation: they're **virtually fireproof.**

This is contrary to some major lithium-ION battery manufacturers, some of whom have encountered criticism for building EVs that catch fire with drivers inside.

When it comes to your customers' homes, where they live, sleep, work, and gather, **flammability is a risk that shouldn't be taken.**

NeoVolta™ is in tune with this truth, offering a solar battery that reduces your customer's electricity rates, keeps critical devices powered on, and most importantly, poses a far lower

risk of catching fire than popular lithium-ion units.

It's designed for safety, while lithium-ion batteries sacrifice safety to be lightweight – and as an installer, **you likely want only the safest option for your homeowner customers.**



See Why Tony Recommends
The NeoVolta Smart Home Battery





Benefits to Solar Installers



Solution to Post-NEM 3.0

Home battery backup is the new standard for solar customers



Supplement Your Solar Install Sales

Add a new revenue stream and offset declining installs due to NEM 3.0



Solar Power Storage Training

Get the information you need to sell solar power storage effectively



Rapid Installs

Plug-and-play design allows for quick and easy installation



Custom Backups

Match client power objectives with customer-specific setups



Flexible Placement

Install indoors or outdoors to meet changing building codes

Time Of Use Rates

Lower Your Customers' "Peak" Rates

Thanks to its versatile design, our NV14 solar battery can help shave down time-of-use (TOU) rates for your homeowner clients.

Here's How:

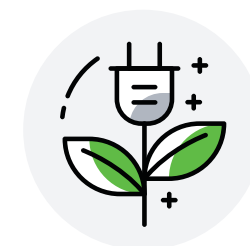
It stores excess solar energy during the day for later use



It can charge from the grid during off-peak hours, saving money on electricity bills

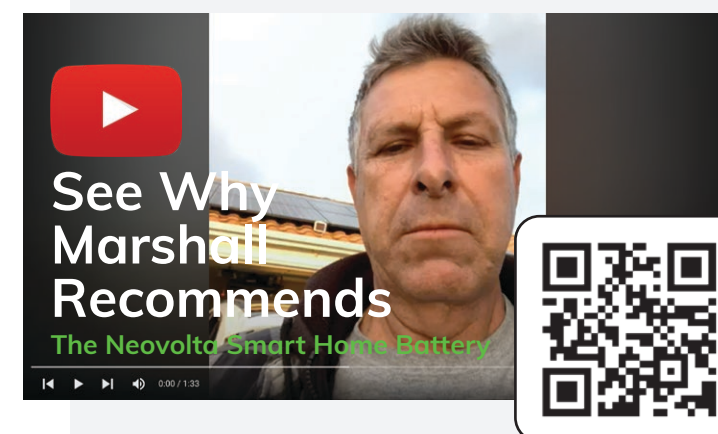



It can be programmed to switch to the grid after peak hours, which conserves power when demand is high



"By storing energy in a home's solar battery, otherwise known as 'peak shaving,' homeowners can avoid time-of-use (TOU) rates that have plagued panel-only users for so long."

Brent Willson | NeoVolta™ Founder & CEO







NEOVOLTA™ Stands Out

Sadly, most lithium-ion manufacturers offer solar batteries that pose a fire risk, take months to deliver, have less battery cycles, and are difficult to install.

Which is why NeoVolta's NV14 is the people's champion for installers and clients alike.

See how we stack up to the competition:

See Why Dan Recommends
The NeoVolta Smart Home Battery



NEOVOLTA™ vs. Competitors

Question	NEOVOLTA™	Competitors
Fire Risk?	No – the NV14's Lithium Iron Phosphate chemistry is certified to not burn.	Often, lithium-ION batteries are used which pose a fire threat.
Is it easy to install?	Yes, it typically takes less than a day.	Typically takes 2 days to complete.
How long does delivery take?	Under two weeks, and often same day.	As long as nine months for some competitors.
Is it cost-effective?	Yes, the NV14's cost generally falls below the median residential storage cost.	Pricing and man power installation time often result in higher costs.
Does it need solar to charge?	No, the NV14 is compatible with grid charge and generators.	Most competitive systems require solar to charge.
How many battery cycles does it offer?	6,000 cycles with lithium iron batteries, which can last 16.5 years.	4,000 cycles with flammable lithium-ION batteries, posing safety risks.

INVERTER Specifications

BAT Voltage	48 V DC (42 V - 58 V)
BAT Current	175 A DC
AC Voltage	208 V or 120 V / 240 V AC (Split Phase)
AC Frequency	60 Hz (59.5 Hz - 60.5 Hz)
AC Input/Output Current	32 A AC (grid tie)
AC Input Power	7,680 W

Output

Nominal AC Power Output	7,680 W
Max. AC Power Output	8,448 W
Max. Continuous Output Current	32 A AC

Input

* AC PV 38A (9,200 W) 125V minimum
** DC PV 10,000 W TWO DC MPPTs: (5,000 Watts, 500 V & 26 A per MPPT) Range 125 VDC to 460 VDC

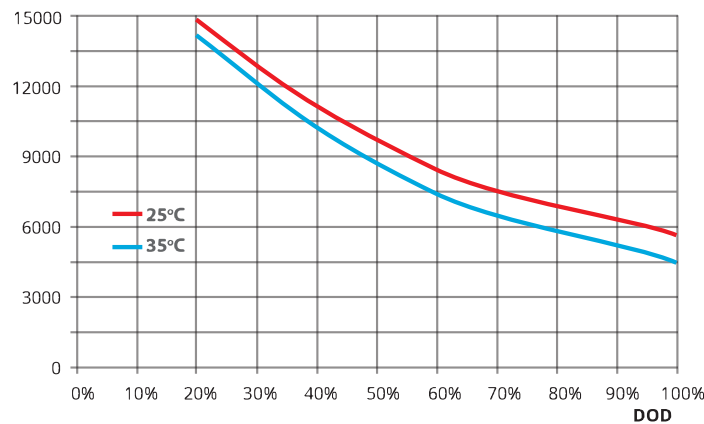
PV

Max. AC Power Input Current* Max. DC PV Power Input (STC)**

Operating Temperature -25.C to 60.C (>45.C derating)
 DC = Direct Current AC = Alternating Current W = Watts
 V = Volts A= Amps Hz= Hertz

* 9,200 W (38A) of maximum AC PV may be used.
 ** 10,000 W of DC PV may be used. DC Solar will be clipped to 8,448 (maximum inverting rate) once the battery system has been fully charged.
 *** Maximum solar input is 10,000 W combined for both AC and DC solar applications (minimum of 1,000 W must be AC solar)

NV14/24 CYCLE LIFE VS DEPTH OF DISCHARGE (6,000 cycles at 90% DOD)



*A cycle is considered one full charge and one full discharge.

NV14/24 CERTIFICATIONS

- Underwriters Laboratories (UL) 9540, 9540A, 1973, 1741, 1642, and 16998 Arc Fault Circuit Protection Type 1
- UL 1741 third edition (including UL 1741 Supplemental SB)
- UL 9540A Battery Energy Storage System (ANSI/CAN/UL 9540:2020)
- Institute of Electrical and Electronics Engineers (IEEE) 1547:2018 (Revision 1547:2002), 1547a2020, 1547.1-2020 (SRD V2.0) (Third Edition)
- Grid Regulation: VDE 0126, AS4777, NRS2017, G98, G99, International Electrical Code (IEC) 62897, IEC 1683, IEC 62116, IEC 61727, IEC 1000-6-1, IEC 62109-1, IEC 62109-2
- EMC: EN61000-6-1, EN 61000-6-3, Federal Communications Commission (FCC) 15 Class B
- Electrical Codes: National Fire Protection Association's NFPA 70 National Fire Codes (NEC) 2023
- California Public Utilities Commission (CPUC) Rule 21 Interconnection
- Hawaii Electric Companies Source Requirement Document Version 1.1 (SRD-UL-1741-SA-V1.1)
- CSA Group C22.2 No. 107.1:2001 Ed. 3, C22.2 No. 107.1-16
- Teletron AC/DC Disconnect ZFV55 VZVH4 A8
- National Electrical Manufacturers Association (NEMA) Type 3R
- California Energy Commission (CEC): Grid Support Utility, Utility Interactive, Energy Storage System
- California installs: Residential: Intended "for use in residential dwelling units."

NV14 Battery Specifications

The NeoVolta NV14 is a complete, fully integrated Alternating Current (AC) or Direct Current (DC) Solar, 208V Commercial and/or 120V/240V Residential Hybrid Inverter Energy Storage System (ESS). It includes a Lithium Iron Phosphate (LiFePO4) rechargeable battery system with UL 9540A certification for photo voltaic energy conversion and storage, which allows consumers to use their own solar generation after the sun has set. The NV14 also allows consumers to power their homes in grid outages using either their solar or their stored energy in the battery system. The NV14 weighs 560 pounds, the NV24 weighs 270 pounds, and both must be ground mounted.

Nominal Characteristics

Nominal Voltage	48 V
Typical Capacity	100 Ah (25.C)
Typical Energy	14,400 Wh
Volumetric Density	122.3 Wh/dm
Gravimetric Density	102.1 Wh/Kg

Electrical Characteristics

Voltage Window	42.0 V ~ 54.0 V
Max Permanent Discharge Current	155 A (7,680 W/Hr)
Max Permanent Charge Current	100 A (5,000 W/Hr)
Energy Charge Efficiency	97% (20.C)

Operation Environment

Charge Temperature	0.C to 55.C
Discharge Temperature	-20.C to 60.C
Storage Temperature	-20.C to 60.C



NV24 Battery Specifications

The NeoVolta NV24 is an additional 9,600 W battery capacity option that combines with the NV14. Total energy storage capacity is increased from 14.4 kWh to 24.0 kWh of Lithium Iron Phosphate (LiFePO4) rechargeable battery. The NV24 weighs 270 pounds and has to be ground mounted.

Nominal Characteristics

Nominal Voltage	48 V
Typical Capacity	100 Ah (25.C)
Typical Energy	9,600 Wh
Volumetric Density	122.3 Wh/dm
Gravimetric Density	102.1 Wh/Kg

Electrical Characteristics

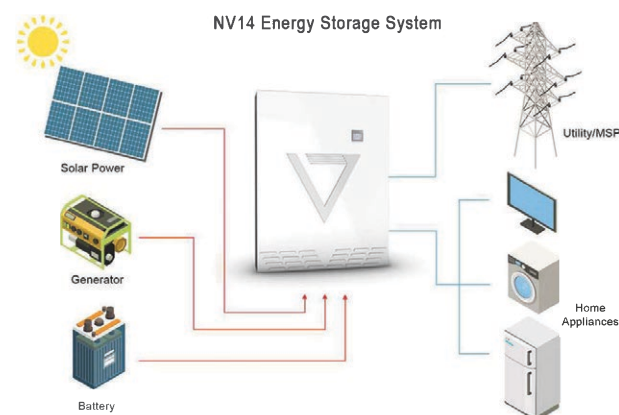
Voltage Window	44.0 V - 54.0 V
Max Permanent Discharge Current	155A (7,680 W/Hr)
Max Permanent Charge Current	100A (5,000 W/Hr)
Energy Charge Efficiency	97%(20.C)

Operation Environment

Charge Temperature	0.C to 55.C
Discharge Temperature	-20.C to 60.C
Storage Temperature	-20.C to 60.C



DISCLAIMER: The information provided herein is correct to the best of NeoVolta's knowledge, is presented in good faith and believed to be correct at the time of printing. No liability for any errors, facts or opinions is accepted. NeoVolta makes no representations or warranties as to the completeness or accuracy of the information. NeoVolta has no liability for any errors or omissions in the materials. NeoVolta, reserve the right to change, delete, or otherwise modify the information which is represented without any prior notice. Persons receiving this information will make their own determination as to its suitability for their own purposes prior to use. In no event will NeoVolta be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this specification sheet or the products to which the information refers. All weights and measures shown are best approximations.



Basics of Operation

- Runs on AC, DC or AC and DC Solar
- Connect to DC solar installations without any external inverters or to AC solar installations via String or Micro inverter
- Seamlessly powers up to 16 breakers (120V) and 32 amps of continuous power through peak rates and grid outages. Higher loads can be added upon Amp study.
- Rapid anti-islanding ensures that even when the grid goes down, the customers' power remain uninterrupted.

AC Solar

Grid ON with AC Solar: When the sun comes up in the morning, the inverter prioritizes the homes sub-panel loads. Once they are satisfied, "excess" solar is sent to battery system to recharge it. Once batteries are fully charged, "excess" solar is returned to the Main Service Panel (MSP)/Utility. Once sun begins to set, the battery will supplement the sub-panel. Upon sun set, the NV14 fully powers the sub-panel. NV14 powers loads via battery throughout the night until 20% battery is reached or until sunrise.

Grid OUT with AC Solar: When the sun comes up, solar is sent to sub-panel. "Excess" solar is sent to battery once home loads are satisfied. Once battery is at 95% full, the inverter turns the "grid" signal to the AC solar off. System is now powering the home loads on battery power. Once the battery depletes to 90%, a "grid" signal is returned to the AC solar system and solar production is returned. This process continues until the sun sets. This feature is required by Code. The battery runs the home sub-panel loads continuously until sunrise the next day and/or until grid power is returned.

DC Solar

Grid ON with DC Solar: When the sun arises, the inverter passes the DC solar through to the battery. Once the battery is FULL, "excess" DC solar is inverted to AC to charge the home loads. Once home loads are satisfied, "excess" solar is set to the MSP/Utility. This setup greatly increases the efficiency as you are inverting less often. Once sun begins to set, the battery will supplement the sub-panel and will eventually power the sub-panel once the sun sets. The NV14 powers loads via battery throughout the night until 20% battery is reached or until sunrise.

Grid OUT with DC Solar: When the sun comes up, solar is sent to battery for re-charging. Once the battery is full, DC solar is inverted to AC and sent to the home sub-panel. Once the sun sets, the battery runs the home sub-panel loads continuously until the sun rises the next day and/or until grid power is returned.

AC & DC Solar

Grid ON with AC and DC Solar: Grid on with AC and DC Solar: When the sun comes up, the inverter passes the DC solar through to the battery. AC solar will charge the home critical loads. Once home loads are satisfied, then "excess" AC solar is sent to the MSP/Utility. Once the battery is FULL, then "excess" DC solar is inverted to AC and sent to the MSP/Utility. Once sun begins to set, the battery will supplement the sub-panel and will eventually power the sub-panel once the sun sets. NV14 powers loads via battery throughout the night until 20% battery is reached or until sunrise.

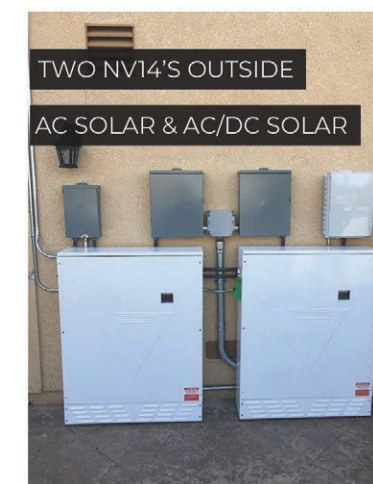
Grid OUT with AC and DC Solar: When the sun comes up, AC solar is sent to sub-panel. DC solar charges the battery. Once the battery is 95% full, then AC solar will be turned off until the battery discharges to 90%. However, DC solar will continue to be present until the sun sets. Once the sun sets, the battery runs the home sub-panel loads continuously until the sun rises the next day and/or until grid power is returned.

Installation

- NV14 is 38" wide and needs four inches of clearance on both sides. The NV24 is 20" wide and needs four inches of clearance on both sides. The NV24 must be installed within 2 feet of the NV14.
- Installation takes 6-8 hours with trained install crew.
- NV14 has to be connected to a 125 Amp Service Panel Bus bar or larger as it requires a 32 Amp (40 Amp breaker) grid connection.
- NV14 must be installed inside if above 2500' in elevation or where the site will experience more than one consecutive day of below freezing temperatures. The NV14 also must be installed inside or must be shaded/protected if installed outside facing south or where summer ambient temperatures will exceed 120 degrees Fahrenheit.
- If installed inside, many Cities/Counties are requiring AC PV and load subpanel disconnects accessible on the outside.
- majority of Installer time is spend pulling circuits out of the MSP and into the provided Eaton sub-panel. It is critical to make sure that the correct neutral is pulled with associated positive. If two positives share a single neutral, then they are either pulled together or not pulled at all. This cannot be determined until time of install when the wiring work begins.
- Loads pulled into this sub-panel will not pay Time-of-Use (TOU) and will be powered grid on or grid off down to 20% remaining battery capacity.

Installation - Critical load sub-panel

- NV14 provides 32 Amps of continuous output to the loads (up to 7,680 W). This is 54% more than some of our competitors. We typically like to see 16 breakers of the 15 to 20 Amp variety (120 V) breakers pulled into the sub-panel. Customers should pull their refrigerator, garage, WiFi, home office, kitchen, family room and other circuits that are important to them in a grid outage.
- Customers should pull other circuits to maximize TOU savings and/or limit grid outage impacts.
- 30 Amp breakers can be considered, but this will greatly reduce the total number of circuits that can be installed. If customer wants to pull a 30 Amp breaker, then installer MUST do an energy study/test to verify total amps. Remember, 32 Amps total is provided by the NV14.



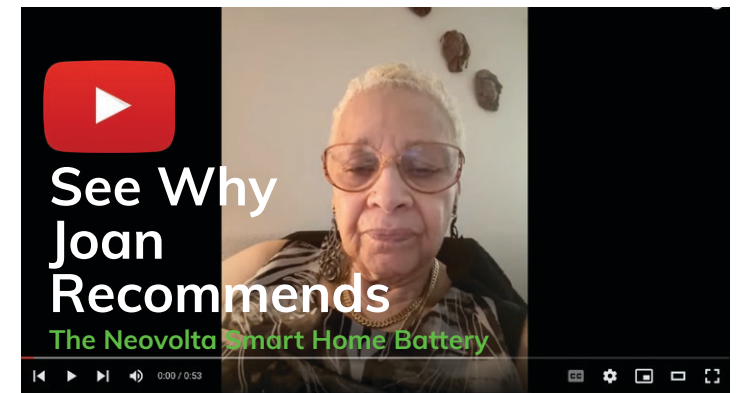
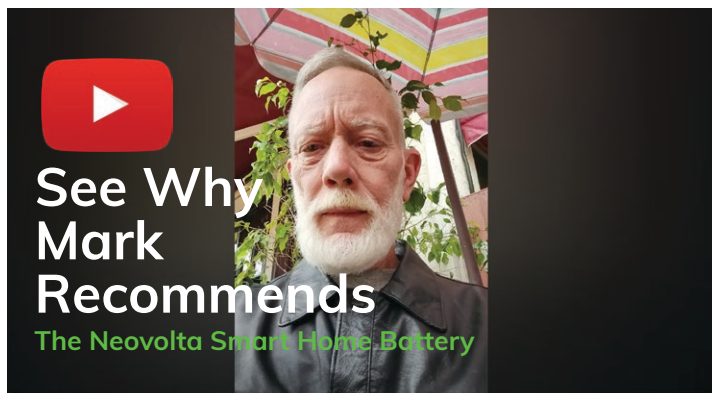
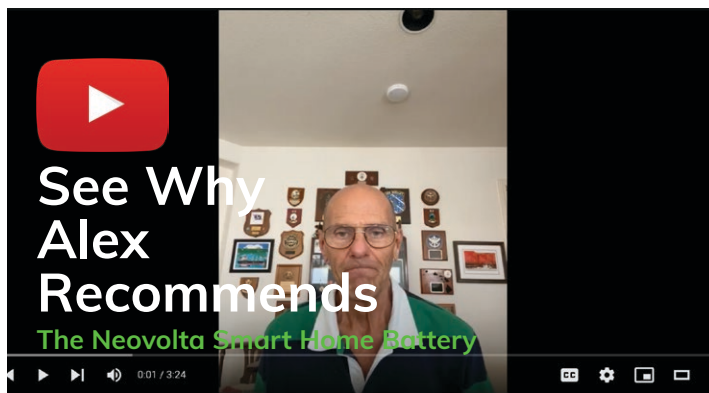


Our Results Speak for Themselves!

Why Homeowners Prefer NeoVolta™

Solar Homeowners are swooning over the savings, continuity, safety, and long-term performance of our NV14 battery. Access the QR codes via your mobile phone to see how the NV14 is helping solar homeowners step away from grid reliance and towards an always-on lifestyle.

Scan QR code to see all customer reviews



Customer Reviews!

Fabulous!!! What an asset to my property!

- Shammy ★★★★★

The NeoVolta battery that I purchased in 2020 continues to deliver beyond my expectations. The unit has worked perfectly and has saved me many times during blackouts and scheduled power outages.

- Brian ★★★★★

NeoVolta batteries are the safest and best battery on the market.

- Mike ★★★★★

I have been extremely impressed with the service provided after the sale.

- Pete ★★★★★

The battery from the time it was installed has worked flawlessly. It has definitely helped lower our SDG&E bills and has insured that we will not be left in the dark in case of a blackout during the summer.

- Juan ★★★★★

Works great! Seamless transition to battery during power outage. Great customer service.

- Marc ★★★★★

Great performance and incredible service.

- Andy ★★★★★

Battery is always doing what it is supposed to do. Never any issues, it just keeps working. I have never had to pay an electric bill. Makes my home more valuable and desirable. Great investment!

- Noel ★★★★★

Couldn't be happier with my NeoVolta battery – but their customer support is even better.

- James ★★★★★

The battery has been a great addition to the solar. Works great and the continued service is very good.

- Ivan ★★★★★

Not only do we really love this backup battery but the company and its service is a 12 on a 1 to 10! They have gone out of their way for us so many times so we highly recommend!

- Jolinda ★★★★★

The battery works great! (2.5 years now). But the better and most important is the NeoVolta customer support.

- Serg ★★★★★



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