

ZENDURE

SuperCharged[Ⓞ]

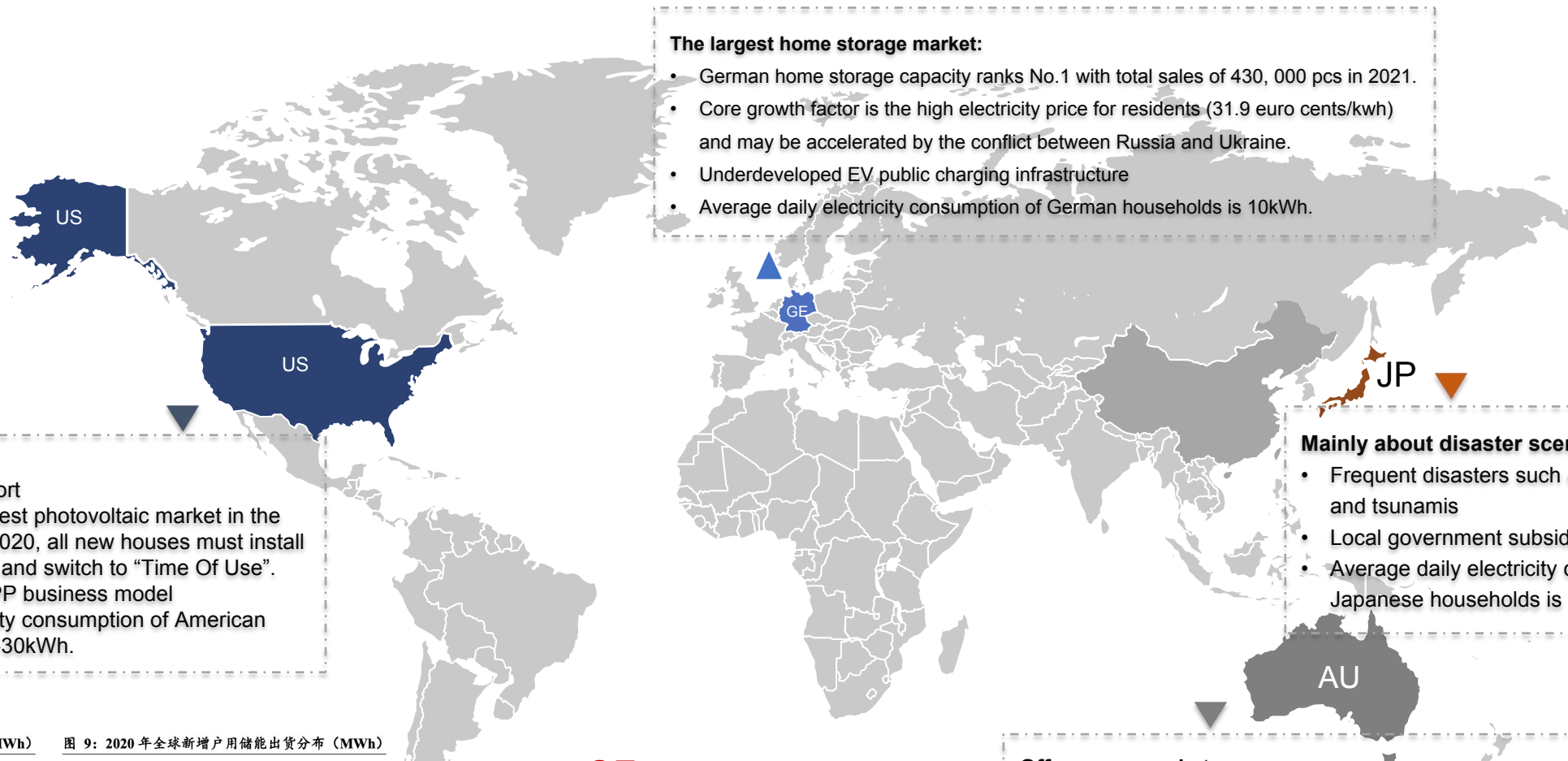


SuperBase V Plug-and-Play Home Energy Storage System

MARKET INSIGHTS



Target Market



The largest home storage market:

- German home storage capacity ranks No.1 with total sales of 430, 000 pcs in 2021.
- Core growth factor is the high electricity price for residents (31.9 euro cents/kwh) and may be accelerated by the conflict between Russia and Ukraine.
- Underdeveloped EV public charging infrastructure
- Average daily electricity consumption of German households is 10kWh.

Core Markets:

- ITC/SGIP policy support
- California has the largest photovoltaic market in the United States. From 2020, all new houses must install photovoltaic systems, and switch to "Time Of Use".
- Virtual power plant VPP business model
- Average daily electricity consumption of American households is 25kWh-30kWh.

Mainly about disaster scenarios:

- Frequent disasters such as earthquakes and tsunamis
- Local government subsidies
- Average daily electricity consumption of Japanese households is 10.5kWh.

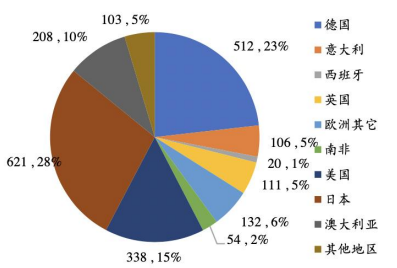
Off-season market:

- Proportion of energy storage in photovoltaics is the lowest (4.4%).
- With the world's largest light source, almost 400, 000 solar systems installed in 2021.
- Retail electricity prices rising, especially South Australians (1.6 times higher than EU average).
- Oil-fired factory explosions, extreme storms cause power outages for weeks in late 2021.
- Average daily electricity consumption of Australian households is 15kWh.

Demand: GE>US>JP>AU
Growth in demand: GE>US>AU>JP

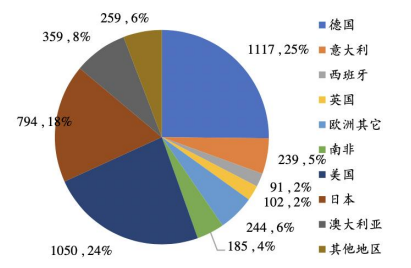
Home energy storage investment payback cycle:
 Japan, Germany 7-8 years
 Australia, California 10-15 years

图 8: 2019 年全球新增户用储能出货分布 (MWh)



数据来源: IHS Markit, 东北证券

图 9: 2020 年全球新增户用储能出货分布 (MWh)



数据来源: IHS Markit, 东北证券

Target Audience

Our Opportunity

**Head
Players**

Who: **Are considering energy storage systems (ESS)**
What for: Beyond the grid, power independence

Brand image



- Not easily movable
- Must combine with roof solar panel
- Time-consuming for installation

Followers

Who: **Strong will at portable power station**
What for: Efficiency, meet specific scenario needs

Differentiate



- Innovations
- Smart Access

Hesitators

Who: **Are using gas/fuel generator**
What for: High power and large capacity for long-term reliable use


Convert



- Not environmentally friendly
- Troublesome use and maintenance
- No backup power with online UPS
- Fuel price rise
- Portable, the best choice in an energy crisis

TA Classification

Tesla Powerwall+



Powerwall Specs

Powerwall+	Powerwall
Energy Capacity 13.5 kWh	Inverter Efficiency 97.5% Maximum Power Point Trackers: 4 Solar Input
On-Grid Power 7.6kVA / 5.8kVA continuous*	Installation Integrated inverter and system controller -4°F to 122°F Water and dust resistance
Backup Power 9.6kW / 7kW continuous* 22kW / 10kW peak* 118A max LRA start Seamless backup transition	Certifications Meets North American safety and EMI standards
Size and Weight L x W x D 62.8 in x 29.7 in x 6.3 in 343.9 lbs	Warranty 10 years

*Full sun / no sun

SuperBase V

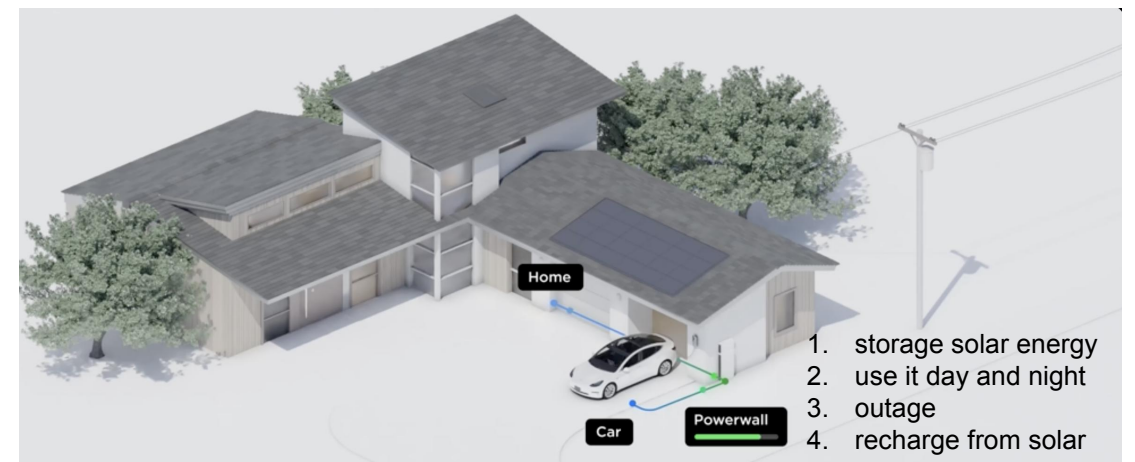
Portable and Flexible:
connect to solar roof system and city grid

Independence:

$4,608\text{Wh} \times 3 = 13,834\text{Wh}$ vs 13.5kWh (LFP)

$3,800\text{W} \times 2 = 7,600\text{W}$ vs 7,600W (on grid, full sun)

Easier to install
AloT voice control



4~20KWh Expandable, No Install & Price Competitive



ZENDURE
Get Charged. Get Going.

\$2,999



\$2,999 **\$2,999** **\$2,999**

\$4,599

Start from **\$4,599**

18.4KW h

\$13,596



13.5KW h

\$11,000



21KWh

\$28,700



19.6KWh

\$19,600

Generator- Honda



Gas Price \$/Gal \$4.91
PG&E Electricity offpeak price \$0.33

Meet the basic needs of power outage (average 49min)
Lithium battery energy storage is more flexible

Product	SuperBase V4600	Honda EU3000iS
Battery Cell	Lithium	Gas
Output Voltage	120V/240V AC	120V AC
Rated Power	3800W	2800W
Capacity	4.6kWh	3.4gal
Full Charge for Use	1hr	6.9hrs
Size & Weight	730x346x443mm; 60kg	658x447x559mm; 72kg(full oil)
Warranty/years	2+N(based on different channels)	3
Retail Price	\$4599	\$2799

	Honda	Zendure
Model	EU3000iS	SBV4600
Price	\$ 2,799	\$ 4,599
Capacity (KWh)	/	4,600
Annual Mtn Fee (维护费)	\$ 150	\$ -
Annual outage hours (8hr/人 x 3人/家庭)	24	24
Full tank gallon	3.4	n/a
Run time (hrs) at full output	6.9	1
Output wattage (取3000W方便对比计算)	3000	3000
Cost per hour	\$ 2.42	\$ 0.99
Annual cost	\$ 208	\$ 24
3 Year total cost	\$ 3,423	\$ 4,670
4 Year total cost	\$ 3,631	\$ 4,694
5 Year total cost	\$ 3,840	\$ 4,718
TOU Savings/KWh (以南加州爱迪生为例)	0	\$ 0.32
Daily Savings	0	\$ 1.47
Annual Savings	0	\$ 537
3 Year Savings	0	\$ 1,612
4 Year Savings	0	\$ 2,149
5 Year Savings	0	\$ 2,686
3 Year Total Cost After Savings	\$ 3,423	\$ 3,058
4 Year Total Cost After Savings	\$ 3,631	\$ 2,545
5 Year Total Cost After Savings	\$ 3,840	\$ 2,031

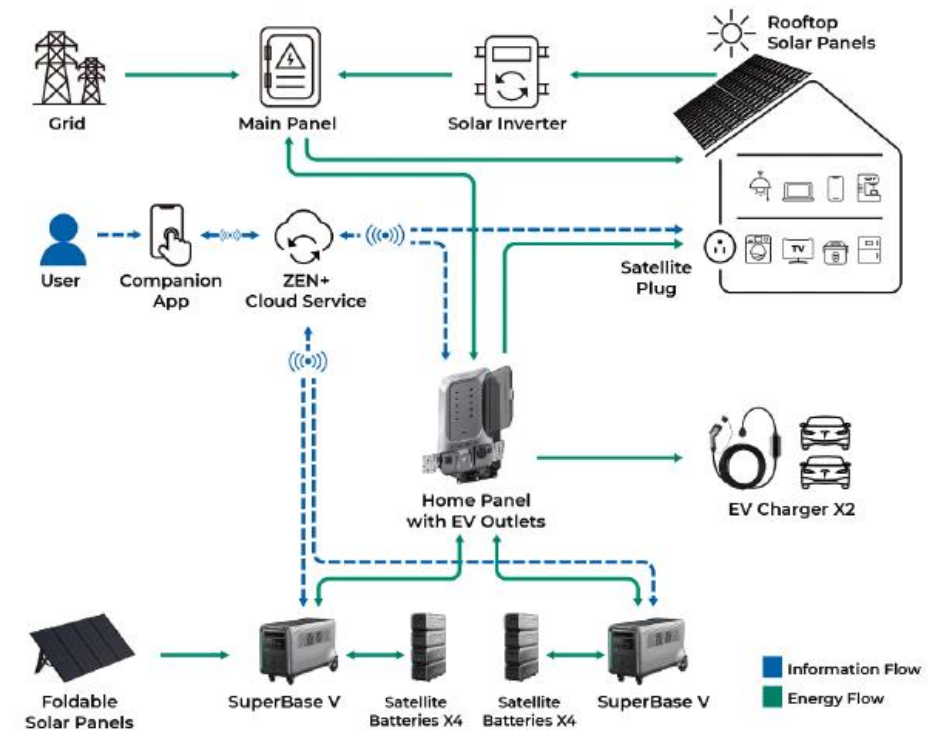


SuperBase V

What a concept

SuperBase V is a Smart Plug & Play Home Energy System like an Appliance

- **Covering household electricity needs:** Ideal for off-grid life and EV charging
- **More flexible home energy storage system :** Optimize traditional generator solution
Direct connect to the existing home main panel to your home's electrical circuits

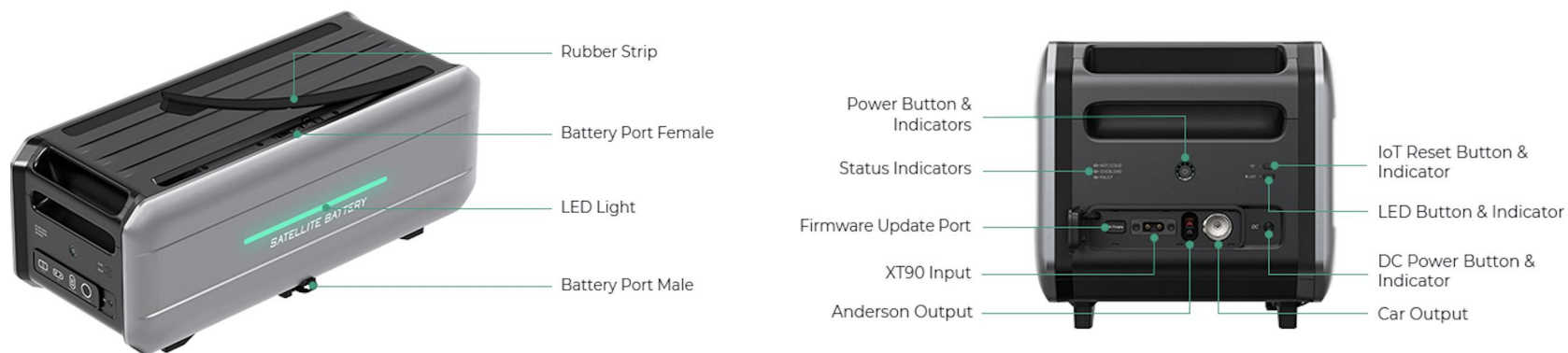


The In's and Out's of SuperBase V

Base unit:

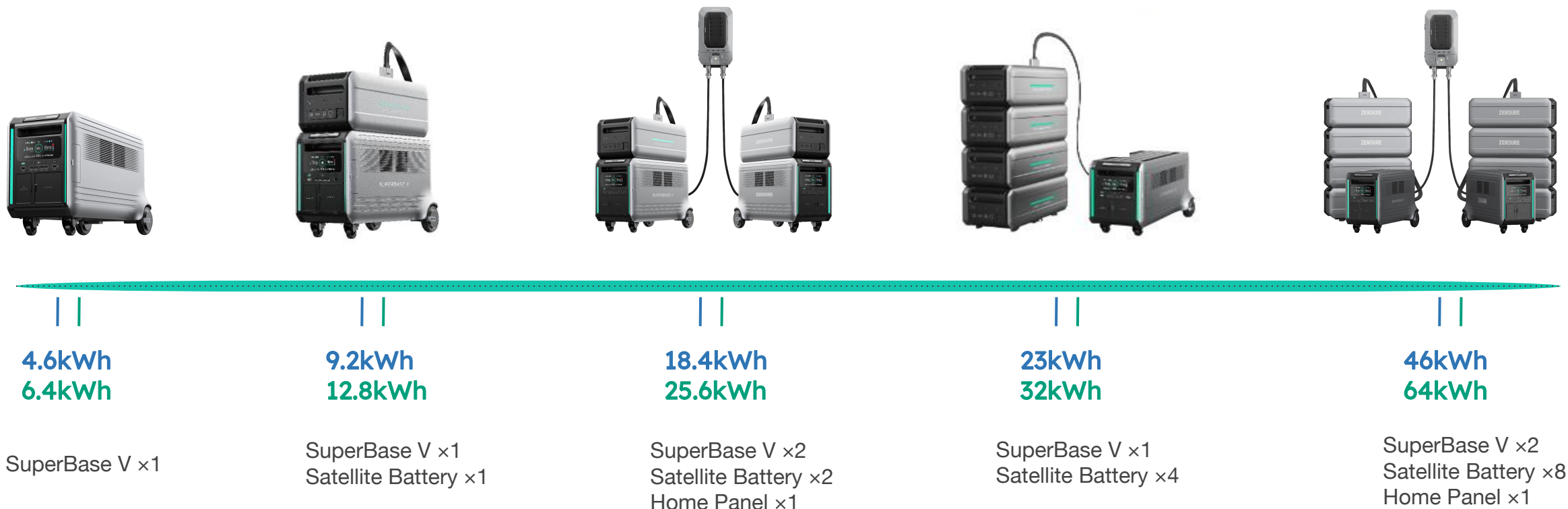


Satellite Battery:



4.6 to 64 kWh - A Custom Fit for Your Use

The SBV4600 has a storage capacity of 4.6 kWh while SBV6400 has 6.4 kWh. The maximum configuration for SBV6400 includes two base units and eight satellite batteries for a total capacity of 64 kWh. Which is enough energy to power a typical household for a week or more.



- SBV4600/AB4600 LiFePO4
- SBV6400/AB6400 Semi-Solid State

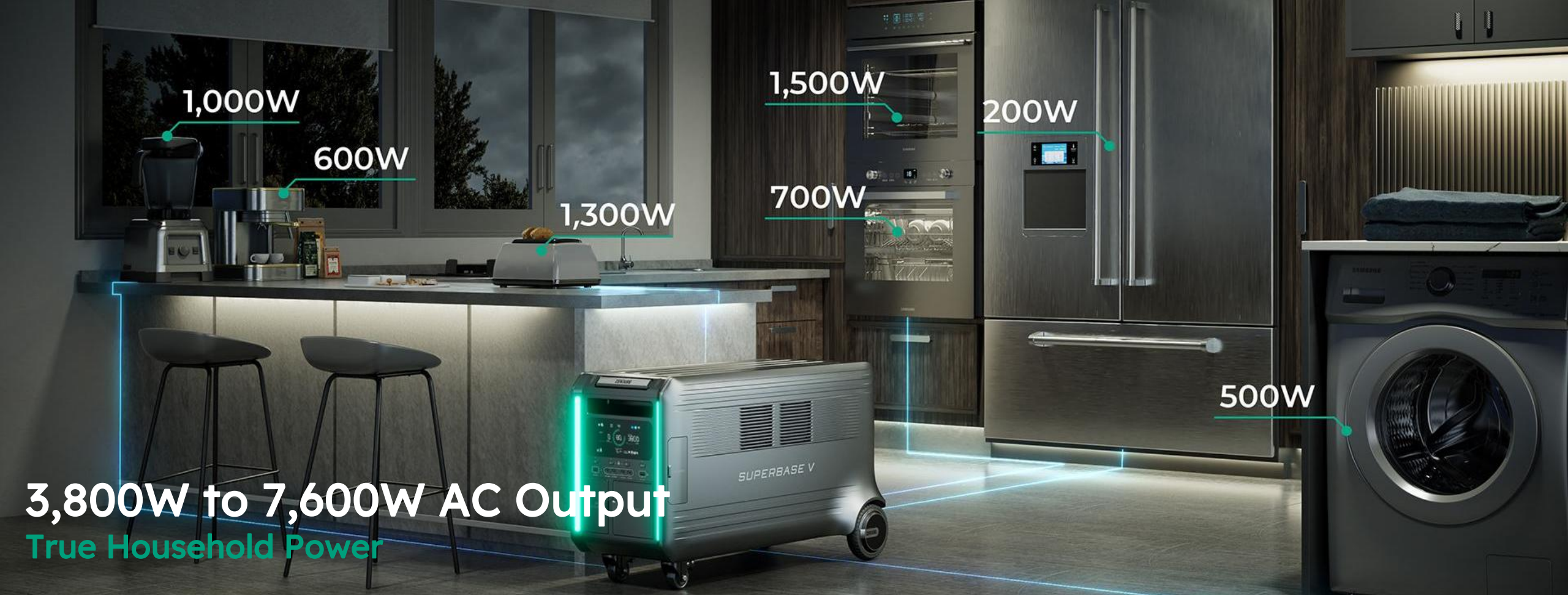
120V/240V In One Unit



Most of the time your home or worksite includes power-heavy appliances or power tools. Electric dryers, water heaters, oven/ranges, cutting machines are some common examples of power hungry appliances that might technically function on 120-volt current but won't operate as effectively.

While other products on the market can provide 120V or 240V, SuperBase V is the first and only system that can supply both at the same time, from a single base unit, thanks to our patented GridFlow 2.0 Real-Time Bidirectional Inverting* Technology. This also makes 240V on the road a reality, making it an ideal worksite companion.





3,800W to 7,600W AC Output
True Household Power



One Base Unit:
Maximum **3,800W**



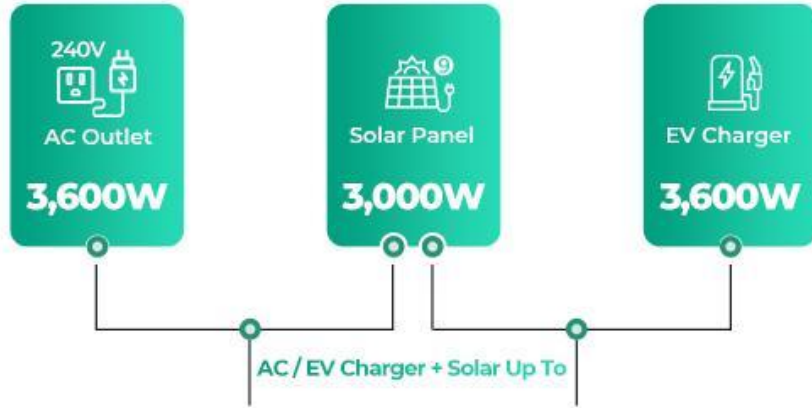
Two Base Units*:
Maximum **7,600W**

A single SuperBase V can provide up to 3,800W of power, and two units can be connected together to provide up to 7,600W. That's enough power to supply a typical household with a washer, dryer, heater, refrigerator and more.

* Two superbaseV can be paralleled via Home panel or ZenY cable

6,600W Multicharge

The Fastest Dual-Charge in the Industry



3,600W 240V AC Input

Charge SuperBase V from a 120V or 240V outlet AC. At 240V, SuperBase V can draw 3,600W at its AC input and recharge in about 2 hours.



3,000W Solar Input

SuperBase V can charge up to 3,000W using solar power alone. While we offer our own solar panels, it is compatible with a wide range of other brands' solar panels from 12V to 150V and can be easily integrated into your existing solar system.



* 5150W maximum input on base units own, 6600W maximum when connected to a satellite battery

EV-Grade Semi-Solid State Batteries



SuperBase V is the world's first home energy storage system with semi-solid state batteries. At more than 228Wh/kg, our semi-solid state batteries have up to 42% more energy per pound compared to lithium iron phosphate (LiFePO4) batteries. And with our battery management software, internal battery life can be as amazing as 10 years or more. Semi-solid state batteries also pose less of a safety risk if damaged, which is critical for home energy management.



Plug-and-Play Energy Storage/Use

Home batteries can be quite heavy. SuperBase V's rear wheels are motorized to help lighten the load. Simply pull the handle and enjoy true portability, even on inclined surfaces.

Double the capacity of SBV and increase its max input power by simply stacking a Satellite Battery on top. More batteries can be added to the system with the included cable.



Plug



Play

Easy-to-Use Expansion Modules

Stack or Snap for More Energy Storage

(Up to 4 for Each SuperBase Unit)



Just One Cord

A Plug-and-Play Upgrade for Your Home



Motorized Wheels

A Revolution in Portability

Easy-to-Use Expansion Modules

Simple, sturdy, stackable.





Seamlessly Online UPS

Sensitive electrical equipment can fail or sustain damage from even a brief interruption in power. When choosing an uninterruptible power supply, every millisecond counts. SuperBase V's backup power switches on in 0ms*, again thanks to our *GridFlow 2.0 Real-Time Bidirectional Inverting* Technology. It doesn't get more "uninterruptible" than that.

Key Scenario: Home Power Independence



Energy outage



EV charging



Clean energy independence



UPS

- Recharge to Industry-Leading **6.6Wh Max** Input in 1 hour, Solar panel compatible
- Expandable Capacity, Up to **64 Kwh** - Customize your own fit SBV system by adding satellite batteries or paralleling additional base unit.
- **3800W~7600W output**, powerful enough to supply most home appliances
- **120V/240V Dual Voltage** - 120V/240V available in one unit for the first time in industry.
- Seamless online UPS, **Zero-Downtime**
- **Comprehensive energy management ***
- Built-in L2 EV chargers, **charge 2 EVs** at the same time*

Usage Scenario: Born for RV, Sustain Your Recreation



- Plug-and-Play Design, *high portability and movability*
- *TT-30 port* can supply up to 30A to your RV or camper's 120V appliances
- *Easy-to-use expansion modules*, save space in the vehicle
- Industry leading *3000W solar input*, charge anywhere, sustain your recreation
- 4 * battery for up to 25.6kWh, fewer 'pit stops' to recharge
- Via *Anderson port*, satellite battery can connect to RV without base unit. It can also draw up to *600W solar input* through the XT90 port

Usage Scenario: Camping life, simple and powerful



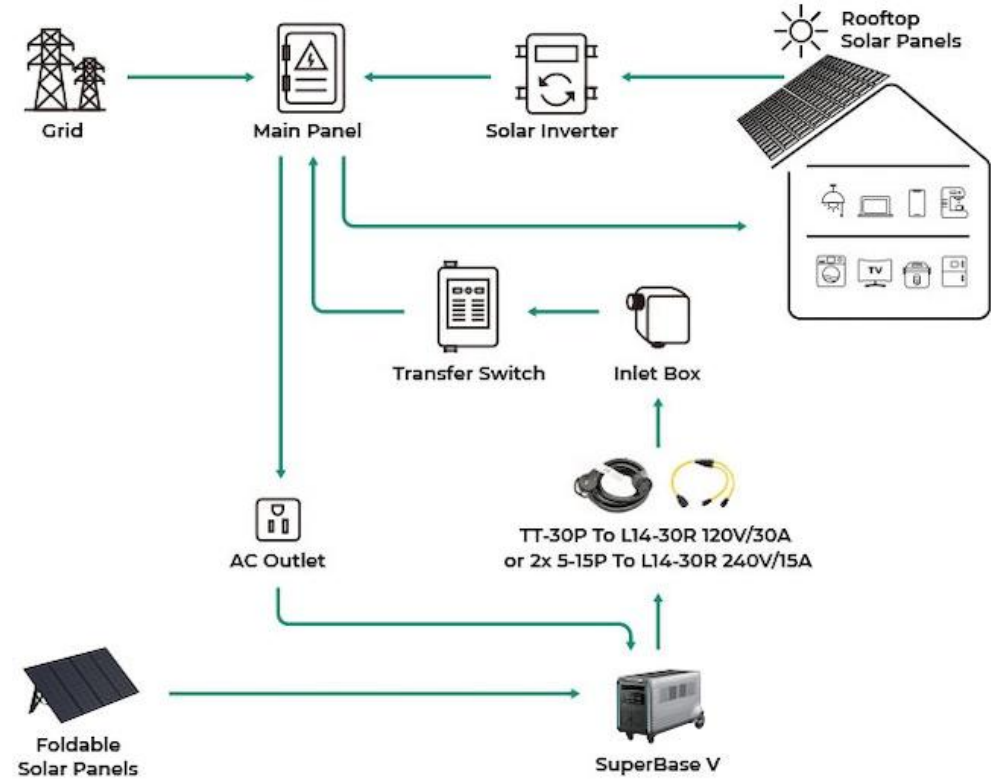
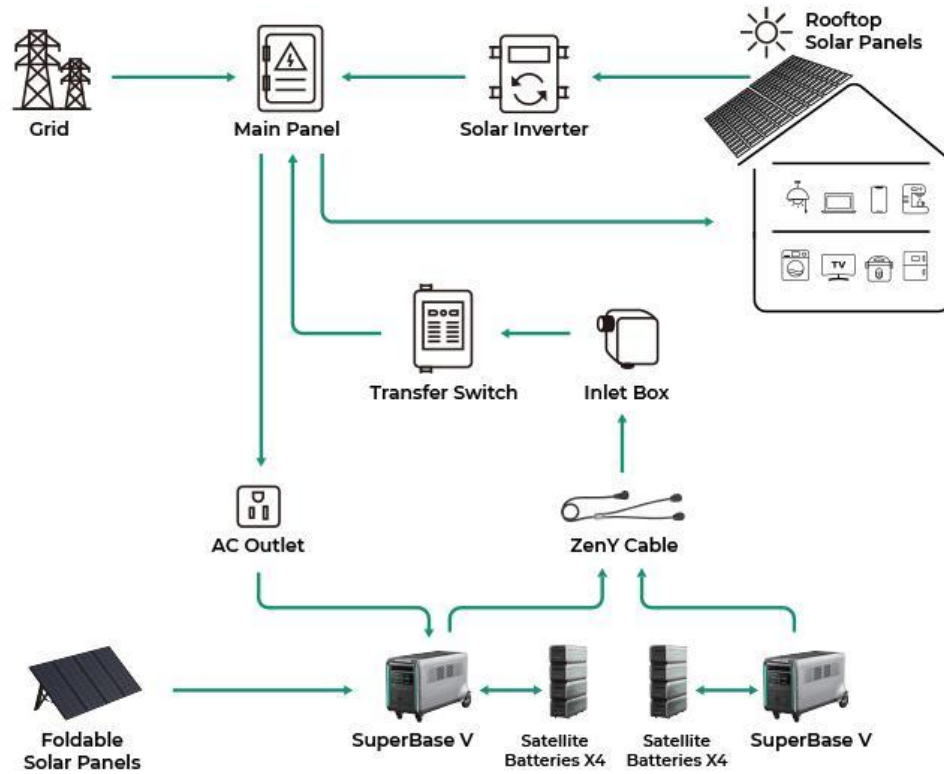
- Plug-and-Play Design, motorized wheels, *high portability and movability*
- 4*Type C, 2*USB, total *14 output ports*
- Ambient Lighting with *customizable colors*
- User-Friendly Design

Usage Scenario: Off-grid lifestyle

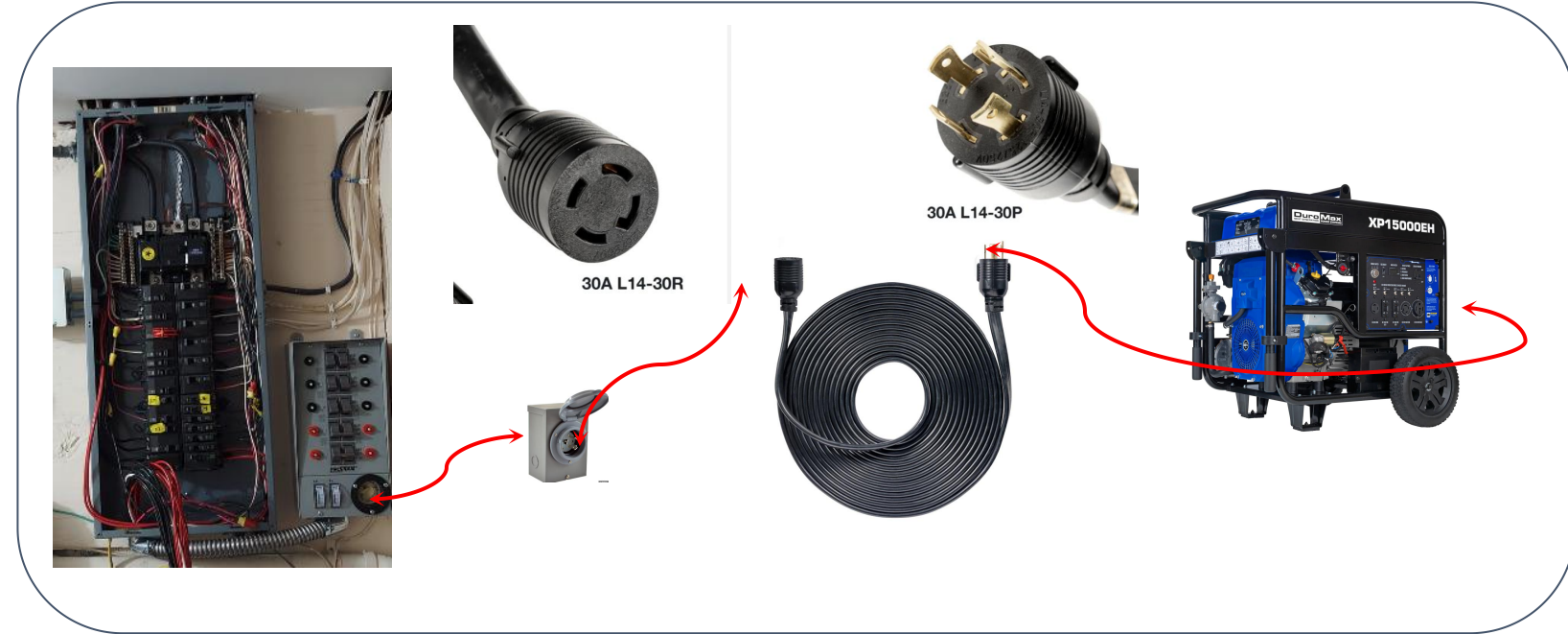


- Expandable Capacity, Up to **64 Kwh** - Customize your own fit SBV system by adding satellite batteries or paralleling additional base unit.
- Plug-and-Play Design, motorized wheels, **high portability and movability**
- **3800W~7600W output**, powerful enough to supply most appliances
- **120V/240V Dual Voltage** - 120V/240V available in one unit for the first time in industry.
- Industry leading **3000W solar input**
- **Eco- friendly, quite, build-to-last**

Perfect replacement for fuel generator

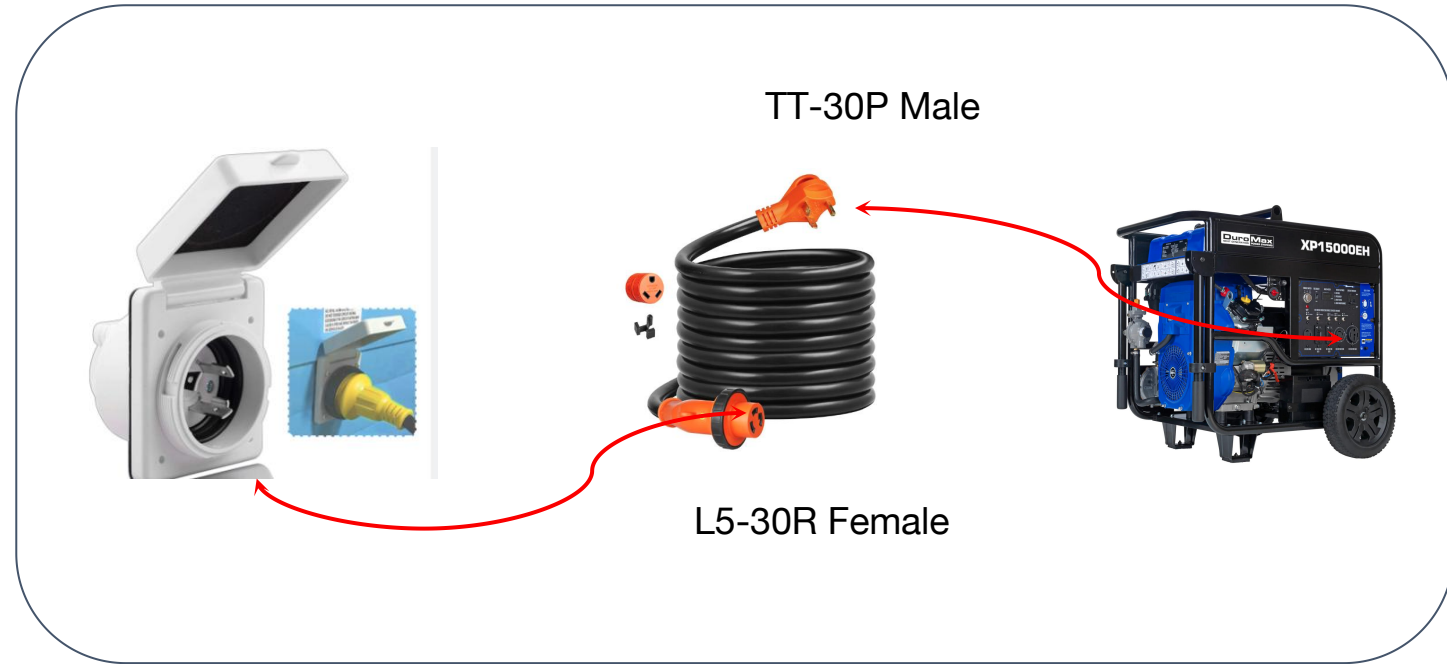


Traditional generator - powering home scenario



The typical way to use a portable generator for home power backup is to use it in conjunction with a manual transfer switch. The generator connects to the [transfer switch](#) which is plugged into an outlet receptacle installed on the outside of the house (“power inlet box”). A cable on the inside of the house runs from the outlet to the transfer switch.

Traditional generator - powering RV/Campers/Trailers

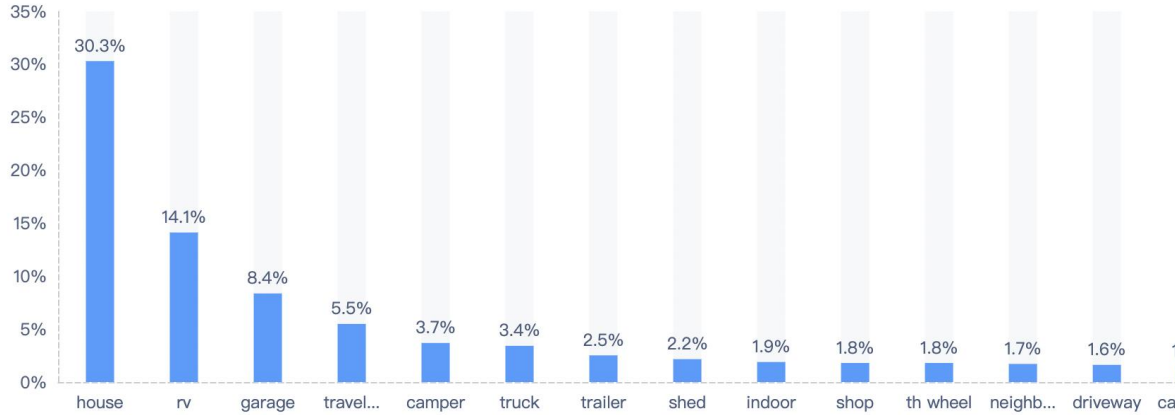


The 30 amp plug is common on travel trailers and fifth wheels. It's also the most common plug to find at a campground.



Generator Customers Analysis

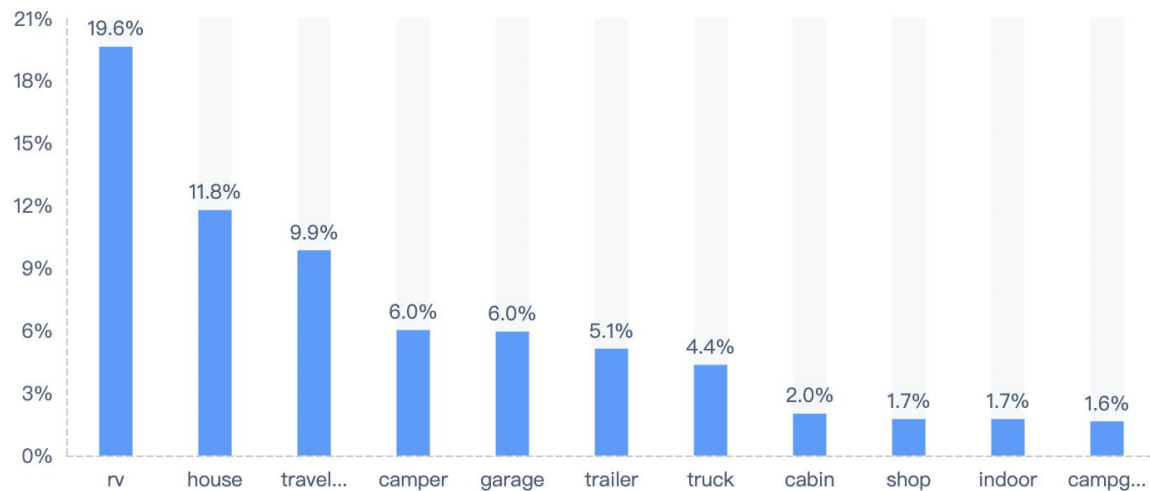
3~5kw



53% 1427 out of 2686 comments mentioned RV-related use cases

23% 610 out of 2686 comments mentioned home-related use cases

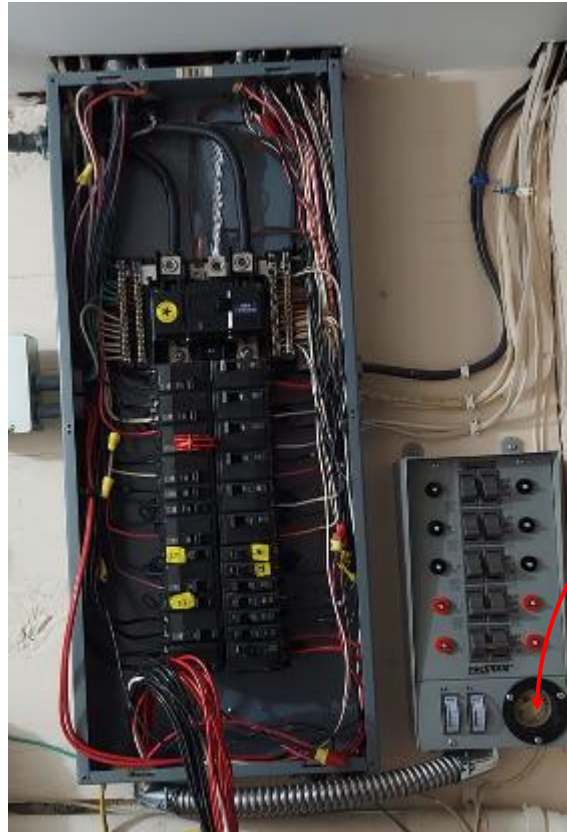
> 5kw



46% 517 out of 1123 comments mentioned home-related use cases

30.3% 342 out of 1123 comments mentioned home-related use cases

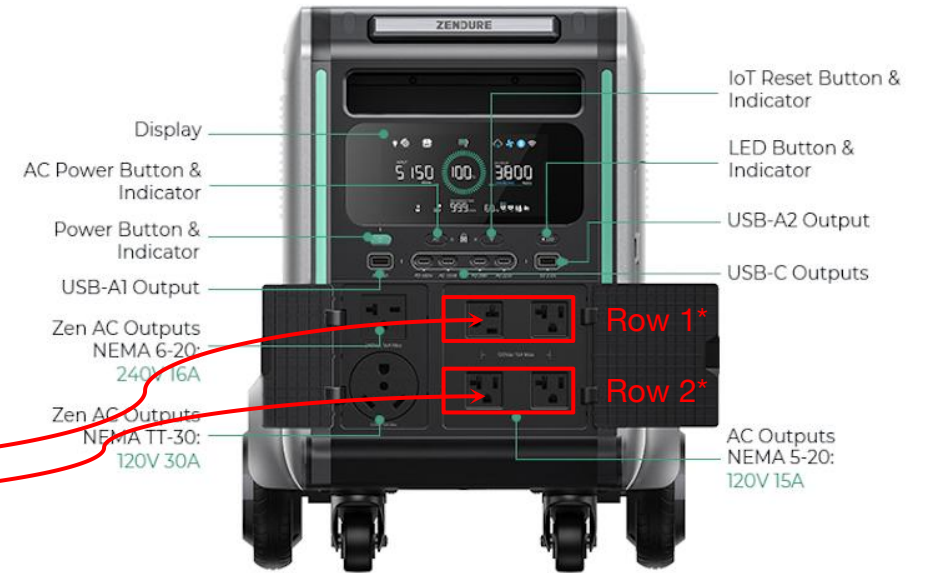
SBV replacement solution: NEMA 2*5-15 to L14-30R



**Output: 120V/240V,
Maximum 3800W
(1900W*2)**

L14-30 Receptacle Female

2* 5-15 Plug Male



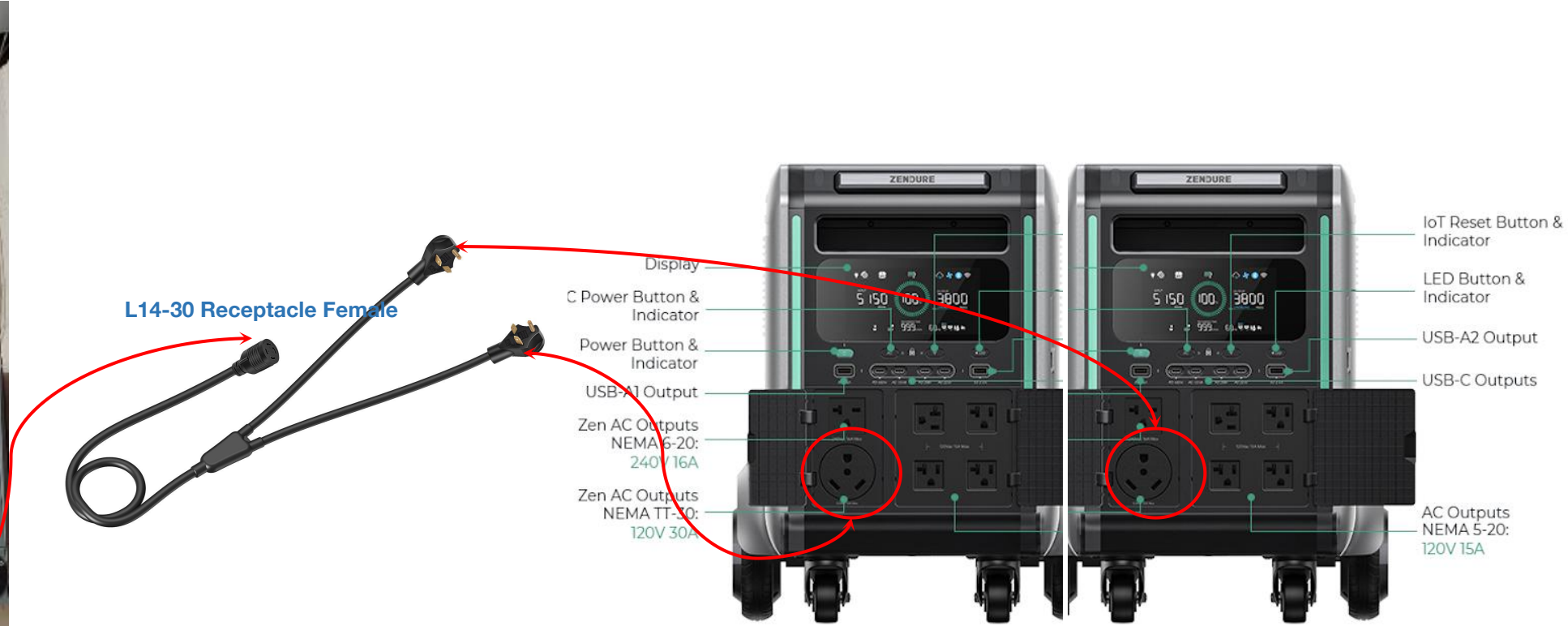
* The two 5-15 Male plugs must be plugged into separated rows in SBV (Row 1 and Row 2 shown in picture)

* NEMA 5-15 and NEMA 5-20 are compatible each other (5-15 15A, 5-20 20A)

SBV is the only system that can supply 120V/240V from a single base unit in the market. A lot of large appliances that are motor-driven requires 240-volt to run efficiently such as:

- Oven, range, or cooktop
- Central air conditioner
- Water Heater/Water Pump
- Dryer
- Air compressors
- Welding Machine

ZenY Cable to L14-30R



Output: 120/240V, 120V 3600W, 240V 7200W

Unit

Model

Required Accessories

Output Port

Output Voltage

Wattage



SBV Singel



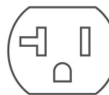
2 SBVs



NEMA TT-30



NEMA 5-20



NEMA TT-30



120V Only

120V/240V

120V/240V

Maximum 3600W

240V:3800W
120V:1900W

240V:7200W
120V:3600W

**Unique ouput
240V/120V on
single unit!**

26 U.S. Code § 25D - Residential clean energy credit

(a) ALLOWANCE OF CREDIT

In the case of an individual, there shall be allowed as a credit against the tax imposed by this chapter for the taxable year an amount equal to the sum of the applicable percentages of—

- (1) the qualified solar electric property expenditures,
- (2) the qualified solar water heating property expenditures,
- (3) the qualified fuel cell property expenditures,
- (4) the qualified small wind energy property expenditures,
- (5) the qualified geothermal heat pump property expenditures, and
- (6) the qualified battery storage technology expenditures,

made by the taxpayer during such year.

What expenses are included?

The following expenses are included:

- Solar PV panels or PV cells (including those used to power an attic fan, but not the fan itself)
- Contractor labor costs for onsite preparation, assembly, or original installation, including permitting fees, inspection costs, and developer fees
- Balance-of-system equipment, including wiring, inverters, and mounting equipment
- **Energy storage devices** that have a capacity rating of 3 kilowatt-hours (kWh) or greater (for systems installed after December 31, 2022). If the storage is installed in a subsequent tax year to when the solar energy system is installed it is still eligible, however, the energy storage devices are still subject to the **installation date requirements**). Note: A private letter ruling may not be relied on as precedent by other taxpayers.
- Sales taxes on eligible expenses

The qualified battery storage system credit can be claimed on federal income taxes for 30% of the cost of the whole system paid for by the taxpayer.

How to qualify SBV for IRA?

qualified battery storage technology expenditure

(6) Qualified battery storage technology expenditure The term "qualified battery storage technology expenditure" means an expenditure for battery storage technology which— (A) is installed in connection with a dwelling unit located in the United States and used as a residence by the taxpayer, and (B) has a capacity of not less than 3 kilowatt hours.

Qualified Battery storage system:

1. Is installed in connection with a dwelling unit in US
2. Capacity \geq 3 Kwh



SBV Single Unit



Transfer switch + Inlet Box



Home Main Load Panel



Two SBV



Transfer switch + Inlet Box



Home Main Load Panel

Risks

The credit is not much as IRS can local inspection or audit. If there is an issue, it should be how to proof the battery will be charged with PV only.

Technically, Portable Solar Generator is the solar generator and can be a credit also. I have made a similar question on Solar Installer & CPAs in 2020, and Most of them are saying if **Hard wired and/or permanent.** Especially, portable battery which can use with solar ~

If tell a personal idea, claims tax credit, if you are using as purpose honestly, no need to worry, and, if they ask to amend, just amend it.

↑ 1 ↓ Reply Share ...



mkimid · 1 yr. ago

The battery should be permanent installation not a temporary

↑ 1 ↓ Reply Share ...



rypajo OP · 1 yr. ago

Doesn't appear to be any language about "permanent"
<https://www.energy.gov/eere/solar/homeowners-guide-federal-tax-credit-solar-photovoltaics>

↑ 2 ↓ Reply Share ...



mkimid · 1 yr. ago

Maybe I am wrong, but, I have heard from my tax advisor. Please, consult with your local accountant. that is a clear way. because you are right there is not 'permanent', Anyway, high recommend that you seek advice from a tax advisor.

The installation requirement is in subsection 25D(e)(8)(A), which states:

an expenditure with respect to an item shall be treated as made when the **original installation of the item is completed.**

Unfortunately, "installation" isn't defined anywhere so we don't know exactly what it means. Clearly, paying someone to permanently secure solar panels to roof would qualify as an "installation," however, I question whether merely setting up a Bluetti would be considered an installation. Maybe if you bolted it down and made it permanent, that could qualify, but that's just my guess. If you lose an audit, it will probably be for this reason.

So, this really comes down to how are you going defend yourself if you claim a tax credit for the Bluetti and later get audited. If you (1) only use the Bluetti in your home, (2) only charge it from the sun, and (3) bolt it down so it is "installed" or you otherwise meet the "installation" requirement, you'll have a decent change of beating an audit. But, you may also lose. I just don't know.

Lastly, I noticed that you asked about whether it needs to be connected to the grid to qualify for the tax credit. The answer is no because 26 USC Section 25D does not have any requirement that the solar electric property be connected to the grid. Also, there is no inspection requirement either, though there is also a "placed in service" requirement (Section 25D(g)).

Lastly, you may want to read [IRS Notice 2013-70](#). It doesn't have anything that directly answers your question, but it does provide general guidance on the tax credit.

↑ 1 ↓ Reply Share ...

C. W. · 4 months ago

If you purchase solar panels with the **Delta Pro**, are you eligible for the Federal tax credit?

Answer this Question

M.B. · 4 days ago

Yes it qualifys for the tax credit. Just know starting in 2023. You will need at least a 3kwh solar gen for the federal credits. For 2022 any solar generator is good for the credits. I claimed my genaverse home power 1 and 2 and my delta pro with extra battery

Specifications

Name:	Model:
SuperBase V	ZDSBV6400 / ZDSBV4600
Capacity:	Size:
6,438Wh / 4,608Wh	73 x 34.6 x 44.2cm
Battery type	Color
Semi-solid State / LiFePO4	Gray
AC Input:	DC Input:
15A Max, 120VAC 1800W or 240VAC 3600W ZenT2 Input: 100-240VAC, 3600W Max (EV T1 Adapter needed)	XT90 Input: 12-150V=25A, 3000W Max
Output:	
Total AC Output: 3800W rated 4x 5-20: 120VAC, 15A 1x 6-20: 240VAC, 16A 1x TT-30: 120VAC, 30A 1x Car Outlet : 12.6V=10A, 126W Max 2x DC5521: 12.6V=3A	1x Andersen: 12.6V=30A, 378W Max USB-C(1)/(2): 5V-20V, 100W Max each USB-C(3)/(4): 5V-12V, 20W Max each USB-A(1)(2): 5V2.4A total
Charge Temperature	Discharge Temperature
-20°C to 45°C / 0°C to 45°C	-20°C to 45°C
Weight:	LED light:
130lbs (59kg) / 127lbs (57.8kg)	RGB; Lighting
Wi-Fi:	Bluetooth:
Yes	Yes

In The Box:

AC cable, MC4 to XT90 cable, Car charging cable, Accessory pouch



Specifications

Name:	Model:
Satellite Battery	ZDSATB6400 / ZDSATB4600
Capacity:	Size:
6,438Wh / 4,608Wh	69 x 28.5 x 27.4cm
Battery type	Color
Semi-solid State / LiFePO4	Gray
DC Input:	Output:
XT90 Input: 12-150V=10A, 600W Max	1x Car Outlet : 12.6V=10A 1x Andersen: 12.6V=30A, 378W Max XT90: 12-60V=10A, 600W Max (App enabled)
Weight:	LED light:
101lbs (46kg) / 98.7lbs (44.8kg)	RGB; Lighting
In The Box:	
Handle Cover, MC4 to XT90 cable	
More:	Smart APP compatible

Satellite Battery



ZENDURE

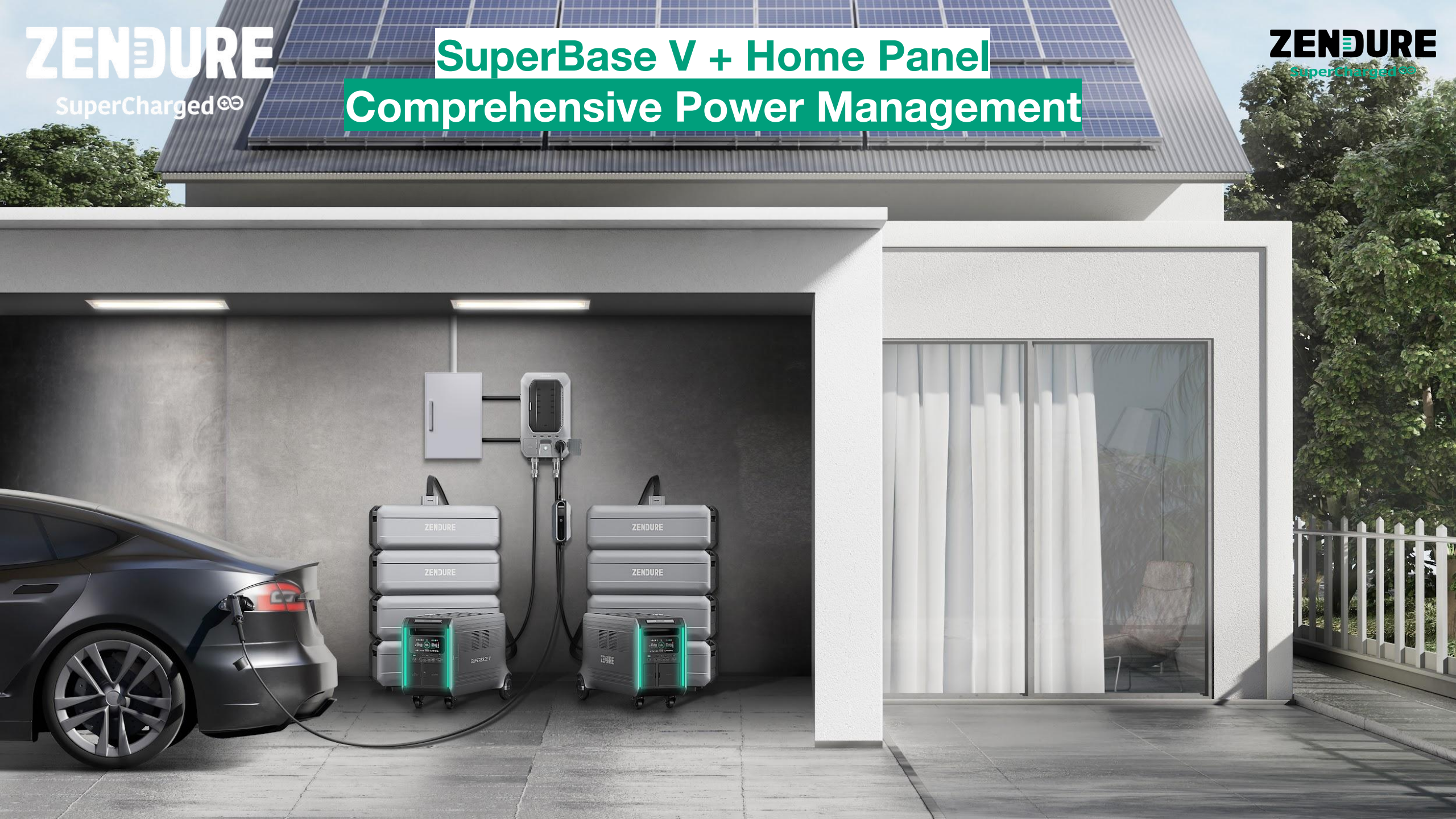
SuperCharged[®]

SuperBase V + Home Panel

Comprehensive Power Management

ZENDURE

SuperCharged[®]



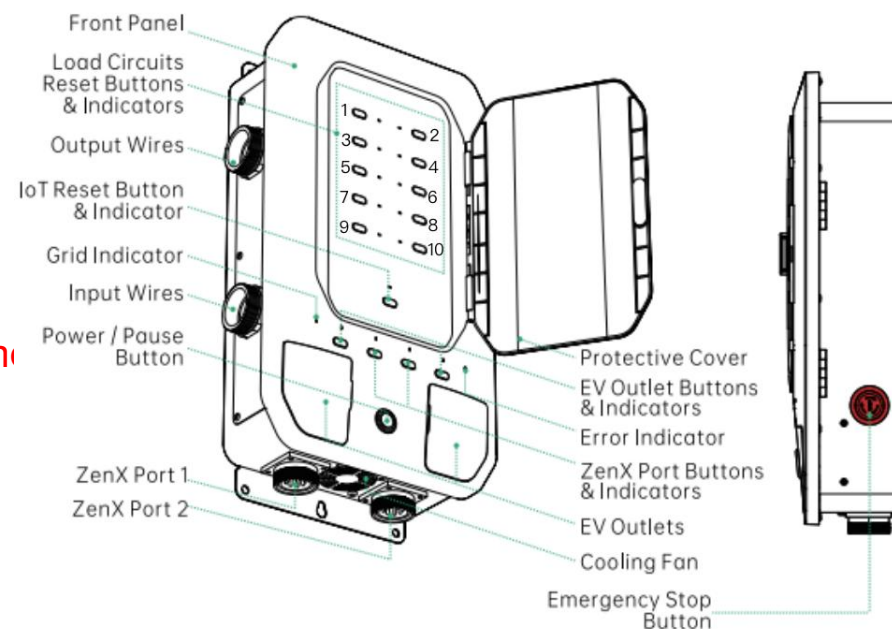
Introducing Home Panel Ecosystem

Home Panel & next generation Gateway Single phase 120V & Split phase 240V both compatible



Home Panel Main Functions:

1. 10-circuit intelligent load transfer switch
2. Connect 2 SBVs together
3. SBV fast charging
4. EV charging (only functional under grid-supply mode)
5. Seamless UPS transfer
6. APP controlled multiple working modes
7. Smart Voice control (Alex & Google Home)

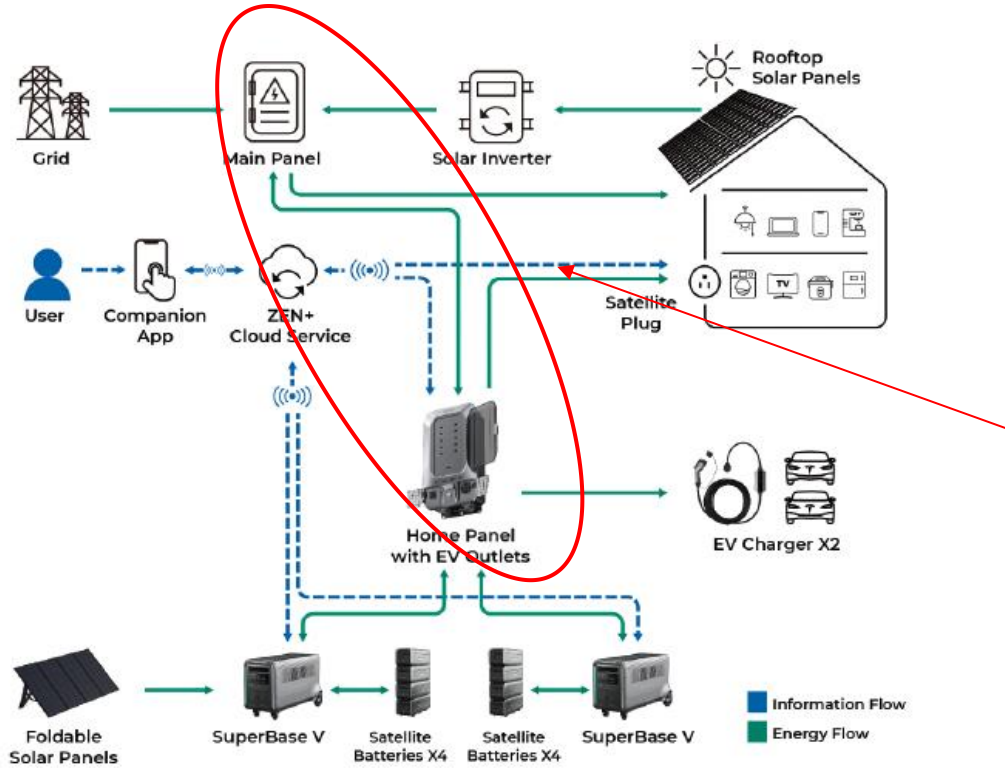


CMF design in progress

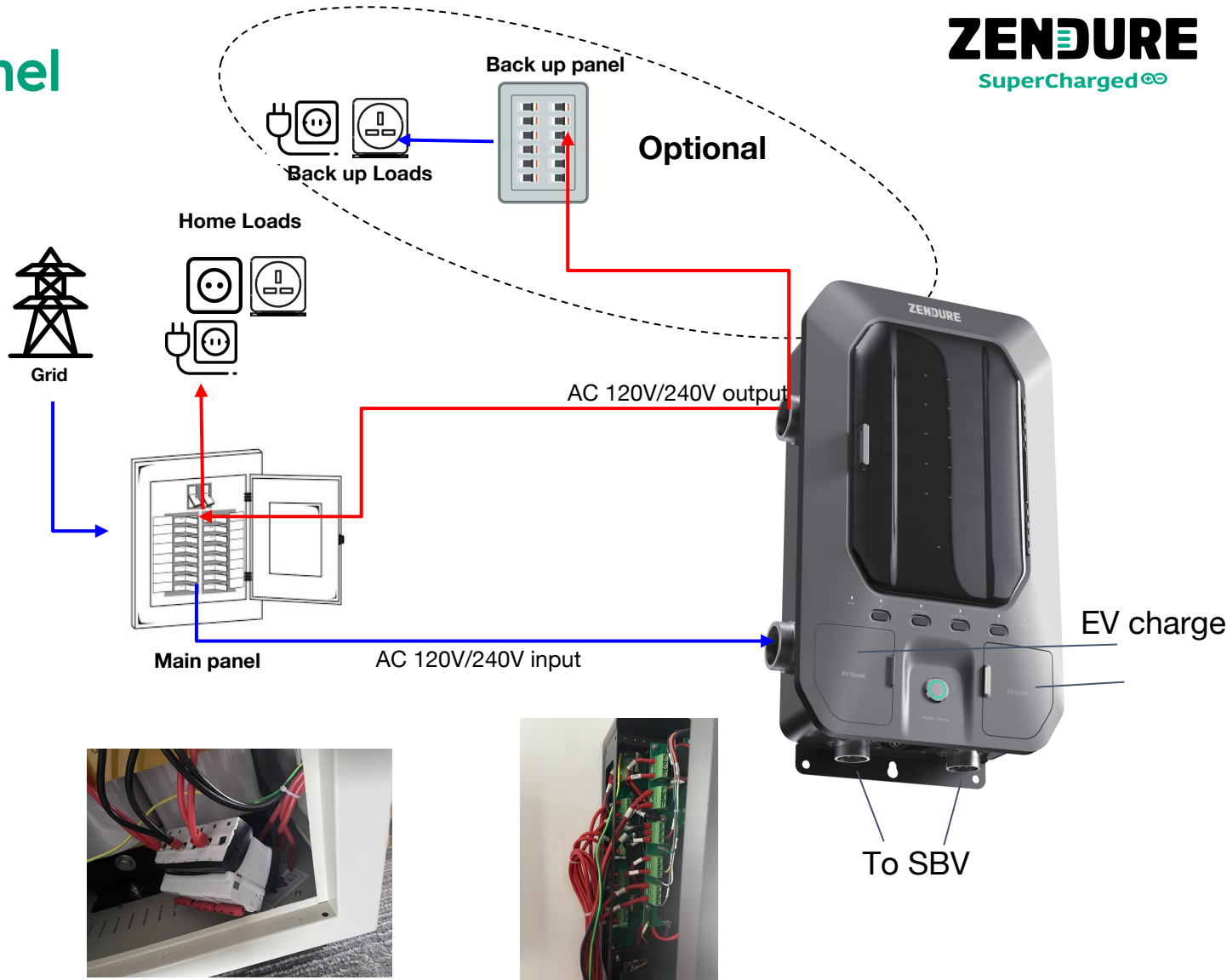
Gateway Main Functions: (still under development)

1. 10-circuit intelligent load transfer switch
2. Connect 2 SBGT/SBG together
3. SBV fast charging
4. EV charging
5. Seamless UPS transfer
6. APP controlled multiple working modes
7. Smart Voice control (Alex & Google Home)
8. Redundant solar energy detection
9. Smart time-based control

Connect Home Panel to Main Panel

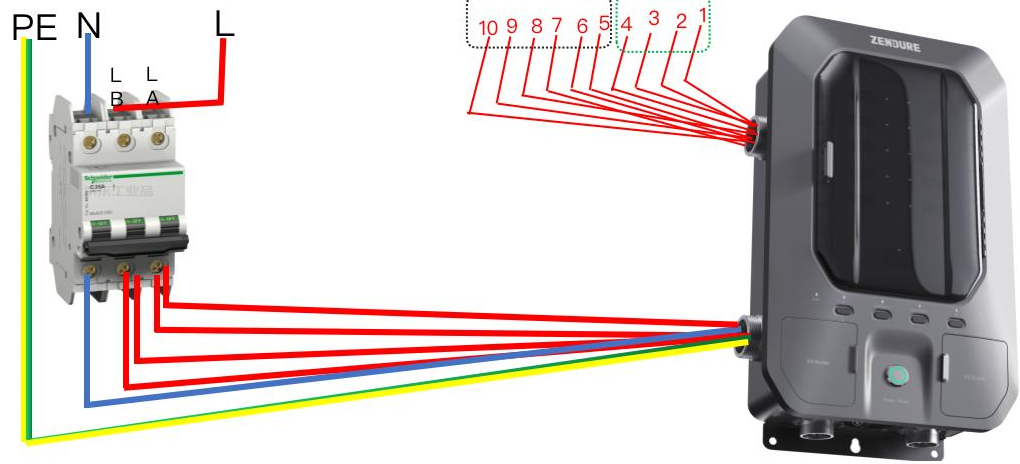


Overall Mechanism



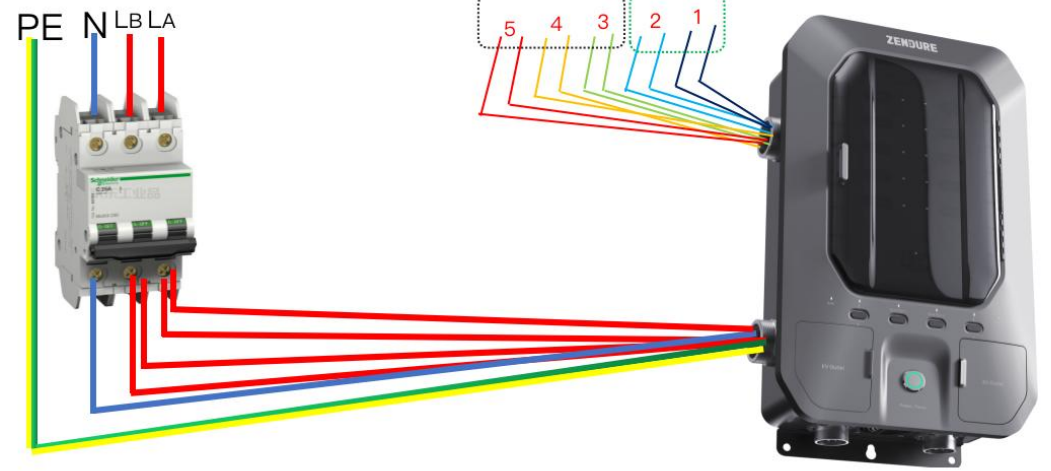
The connection between Home panel and main panel should be operated by professional electricians !

Grid input
120V AC120V input



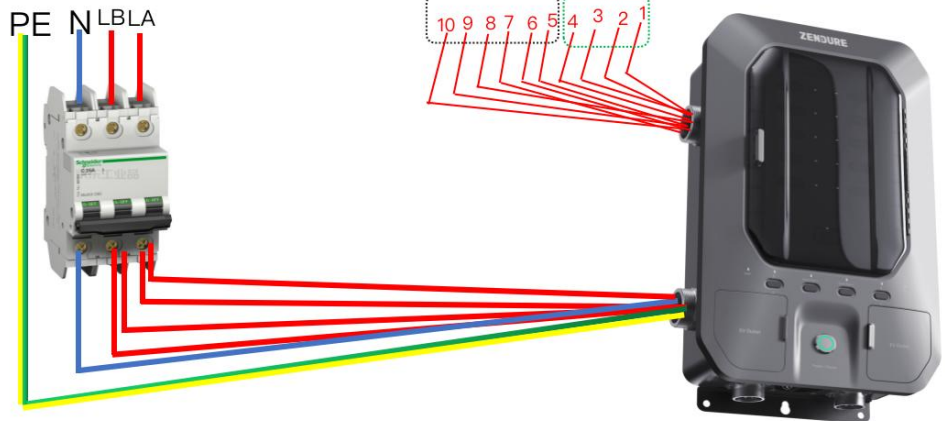
Output: Circuits 1-4 120V 30A, circuits 5-10:120V 20A

Grid input
240V: AC240V input



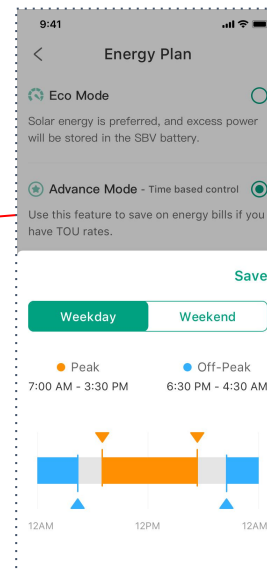
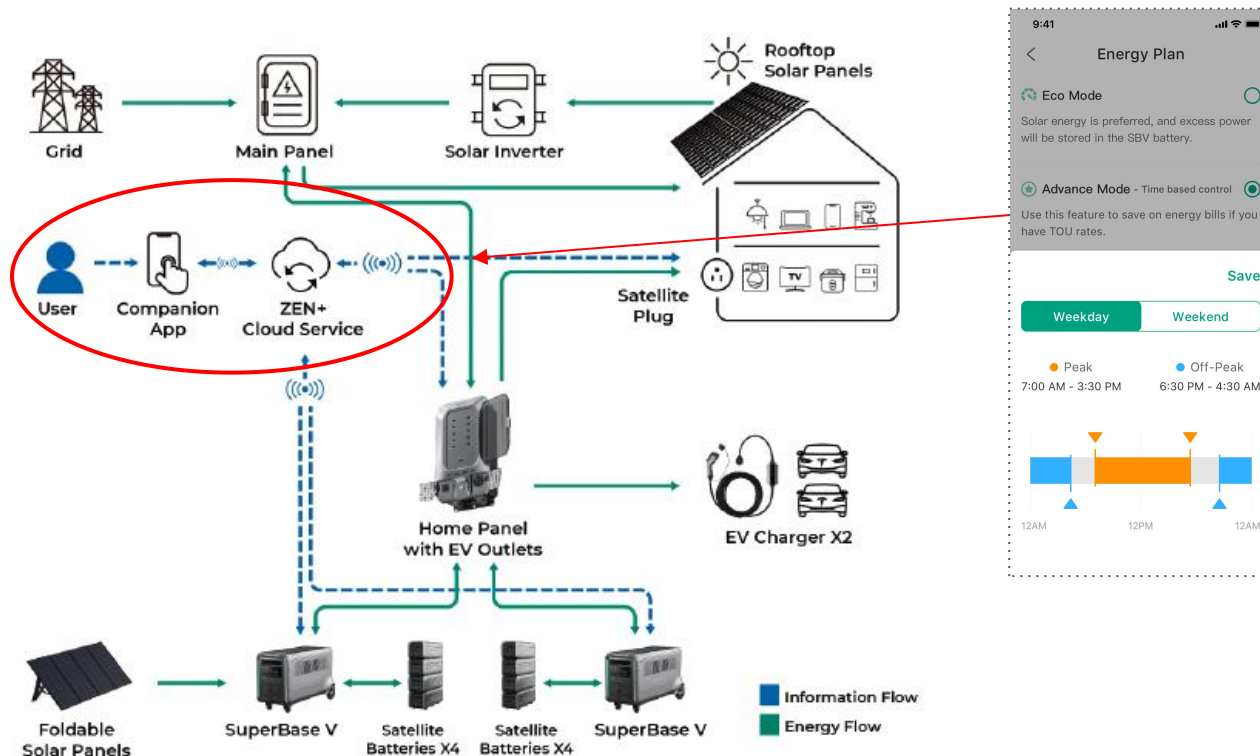
Output: Circuits 1-2 240V 30A, circuits 3-5:240V 20A

Grid input
240V: AC240V input



Output: Circuits 1-4 120V 30A, circuits 5-10:120V 20A

How to monitor and manage the Power?



Back-Only Mode

The Home Panel will always keep the connected SBV with 100% power reserve (you can set the minimum power reserve you want to keep).

Eco Mode

Preferential use of solar energy, excess power Home Panel will be stored in the connected SBV battery.

Advance Mode (Time based control)

Use this feature to save on electricity bills if your electricity rates change within a day

Load Priority Mode

When the power consumption of the house is greater than the maximum power supply capacity of Home Panel or the house encounters a power outage, Home panel will keep high-priority loads working normally as possible as it can.

And more modes to come...

Home Panel with EV Outlets



US



EU

Color	Grey	
Dimensions	28.5 x 11.9 x 49.2cm	
Weight	20lbs (9kg)	
AC Input	12,000W Max, 120VAC 100A or 240VAC 50A	23,000W Max, 230VAC 100A
ZenX Input	120VAC 7,600W Max (2*SBV Input) 240VAC 3,800W Max (1*SBV Input)	230VAC 7,400W Max (2*SBV Input) 230VAC 3,700W Max (1*SBV Input)
ZenX Output	120/240VAC 3,800W Max	230VAC 3,700W Max
Output	Load Circuit: 12,000W, 120V/240VAC 1 x 14-50: 40A 9,600W Max (240VAC) 1 x 6-20: 16A 3,800W Max (240VAC)	Load Circuit: 11,500W, 230VAC 1 x CEE32: 32A 7,360W Max (230VAC) 1 x EU(Type F): 16A 3,680W Max (230VAC)
Emergency Stop Switch	Yes	
More	Smart App Compatible	
In The Box	2x ZenX cable, Wire Connectors, Fuse Clamps, Screwdrivers, Screws	

EV Charger



US



EU

Color	Grey	
Cable Length	25ft (7.6m)	
Weight	22lbs (10kg)	
Input/Output	100V-240V AC 50/60Hz	100V-250V AC 50/60Hz
Rated Current	10/16/20/24/32A	
AC Plug	NEMA 14-50	CEE-32
EV Connector	Type 1 (or J1772)	Type 2 (or Mennekes)
Operating Temp	-30°C ~ 50°C	
More	4 LED Indicators	
In The Box	14-50r to 5-15p cable 14-50r to 6-20p cable	CEE32r to EU plug cable CEE32r to UK plug cable CEE32r to AU plug cable