Explore Further With Jackery Solar

Jackery
Solar Generator

Jackery Explorer 2000 Plus Introduction

May, 2023

Catalogue

Jackery Explorer 2000 Plus Introduction

6000W/24kWh

Specification	
Capacity	2042.8Wh
Continuous Output	3000W
Peak Output	6000W
Battery Type	LiFePO
Battery Lifecycles	After 4000 cycles, > 70% capacity remains
Product Weight	61.51lbs (27.9KG)
Dimensions	18.7*13.9*14.6 in
Output Ports	AC Output(NEMA 5-20 * 4): 120V, 60Hz, 20A, 3000W /6000W peak
	USB-A output(×2) Quick Charge 3.0, 18W Max 5V⎓ 3A, 9V⎓ 2A, 12V⎓ 1.5A
	USB-C Output(×2) 100W Max 5V⎓ 3A, 9V⎓ 3A, 12V⎓ 3A, 15V⎓ 3A, 20V⎓ 5A
	Car Port(×1) 12V⎓ 10A
Input Ports	AC Input 120V, 60Hz, 15A Max
	DC Input 11V-17.5V(Working Voltage)⎓ 8A Max, Double to 8A Max
	17.5V-60V (Working Voltage)⎓ 12A, Double to 24A/1400W Max
Box Size	22.44*17.72*19.29 in
Charged with AC	2 Hours Full
Charged with 12V Car Outlet	35 Hours
Charged with Solar Panel	2 Hours (6*200W Panels)

Powering Devices of Solar Generator 2000 Plus

Projector	Mini Cooler	Blender	Coffee Maker	Electric Grill
(100W)	(90W)	(300W)	(550W)	(1600W)
24.2H	26.8H	8.1H	4.4H	1.5H

Hand Drill	Refrigerator	Air Conditioner	Microwave	Instant Pot
(60W)	(520W)	(1150W)	(1160W)	(1000W)
40.3H	4.7H	2.1H	2.1H	2.4H

Using Scenarios

RV Camping

Dry camping：Use RVs to camp in places without water and electricity. In this scenario, campers have the highest demand for power.

- As a backup power for RVs；
- Take power outside the RVs to use ;
- Power for multiple devices simultaneously

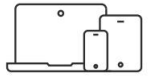
Off Grid Cabin

Supply power to electrical equipment in the cabin/trailer tent scene

Home Emergency Backup

Home Appliances

Home Office



Digital Equipments

Medical Equipments

Tools

Lights

Using Scenarios—in RV Camping

As a mobile charging pile for the RV, it directly supplies power to the entire RV. And the capacity can be expanded by DIY according to the electricity demand. A single 2000 Plus can be expanded to a maximum of 12 kWh, and can be expanded to a maximum of 24 kWh with parallel power strips.

When parking camping or parking outdoors, it can supply power to common AC equipment or office equipment in the car. And you can DIY to expand the capacity according to your own electricity needs. A single 2000 Plus can be expanded to a maximum of 12 kWh, and can be expanded to a maximum of 24 kWh with parallel power strips. At the same time, it can be equipped with solar panels to recharge the energy storage or power pack when parking.

Using Scenarios—in Off Grid Cabin

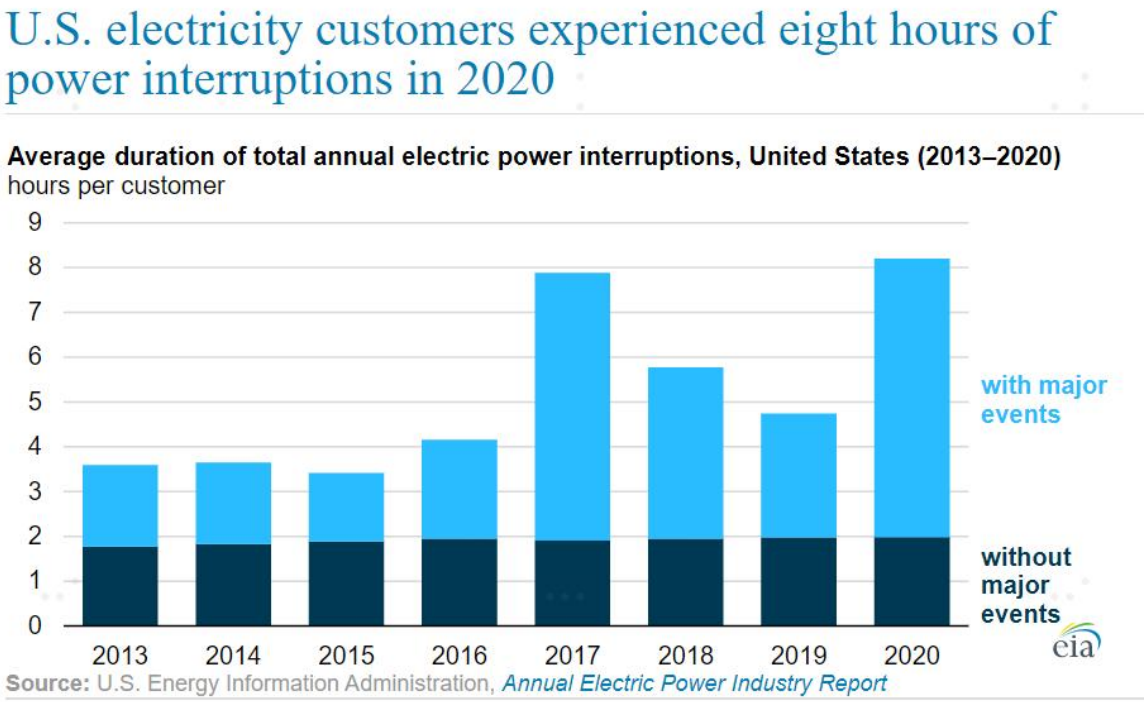
Video link：https://www.bilibili.com/video/BV1P54y1z7UG/

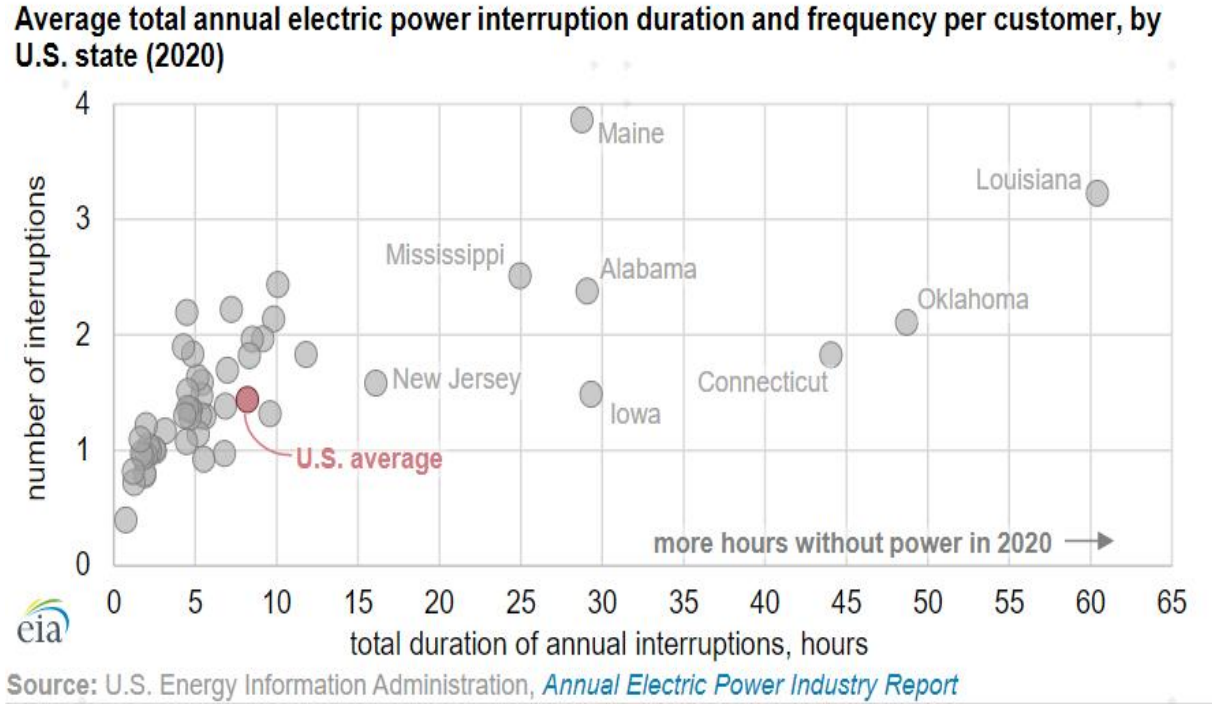
As the power supply of the cabin, it directly supplies power to the entire RV. And the capacity can be expanded by DIY according to the electricity demand. A single 2000 Plus can be expanded to a maximum of 12 kWh, and can be expanded to a maximum of 24 kWh with parallel power strips.

Directly power AC equipment or office equipment in the off-grid cabin. And you can DIY to expand the capacity according to your own electricity needs. A single 2000 Plus can be expanded to a maximum of 12 kWh, and can be expanded to a maximum of 24 kWh with parallel power strips. At the same time, it can be equipped with solar panels to recharge the energy storage or power pack when the sun is good, so as to realize the storage of electricity.

Using Scenarios—in Home Emergency Backup

The longest recorded outage in 2020 was in Louisiana, at 60 hours.

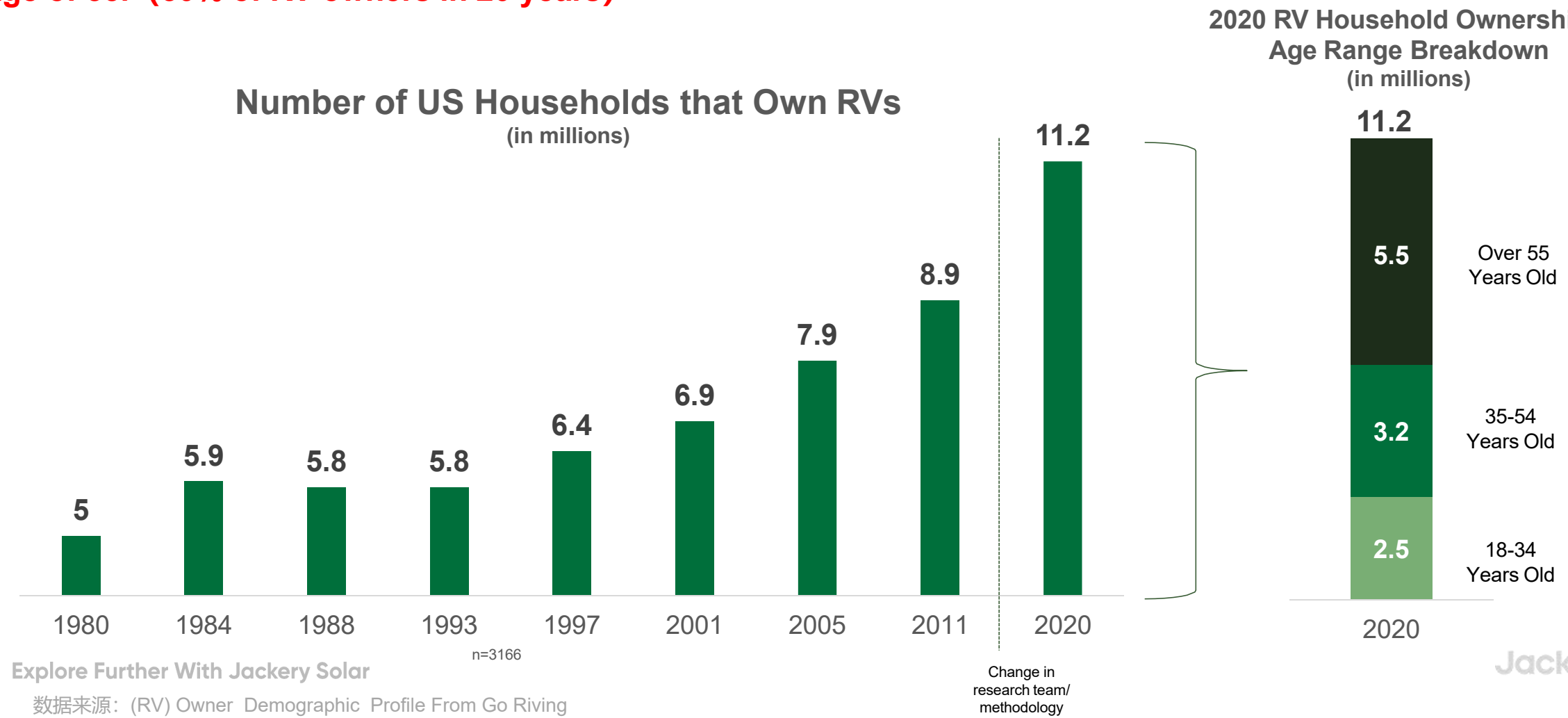




Different factors cause power interruptions, including weather, vegetation patterns, and utility practices. Utilities can report interruption duration values with major events (including snowstorms, wildfires, and hurricanes), without major events, or both.

Market Analysis—Analysis of US RV Market Capacity

- As of 2020, there is a total of approximately **11,200,000 RV-Owning Households** in the United States; RV ownership continues its steady positive trend in the twenty-first century, adding a total of 2.3 million new RV Families since 2011.
- RV ownership increases in correlation with householder age, with the highest incidence recorded among those **over the age of 55. (50% of RV owners in 20 years)**



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数据来源：(RV) Owner Demographic Profile From Go Riving

Jackery

User portrait—RV Campers portrait

In 2020, the proportion of households with RVs in the United States will be 9.5%, and the number of RVs will be 11.2 million.

18-34: 22%
35-54: 29%
Over 55: 49%
Median Age: 53

52%
Male

<$45K: 23%
$45K-$100K: 43%
>$100K: 29%

85%
Caucasian

70%
Are Married

57%
Are College Graduates

50%
Are Employed Full/Part-time

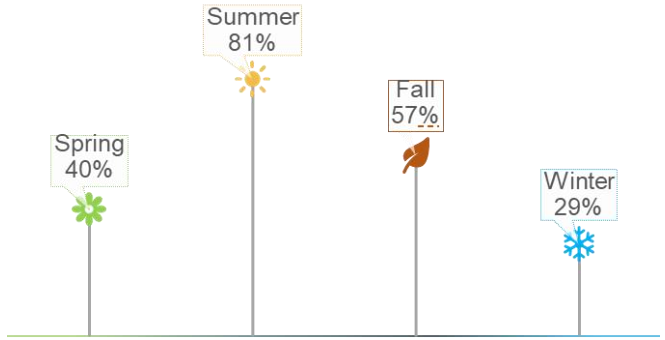
34%
Have Children Under 18 in the Home

27%
Are Young Families (Under 45 Years Old With Children Under 18)

31%
Are First Time Owners (on their first RV)

Data Sources from: 《Recreation Vehicle (RV) Owner Demographic Profile》

Seasons RV Is Used



20 Days
Median Number of Days RV Is Used

Basic portraits of RV campers:

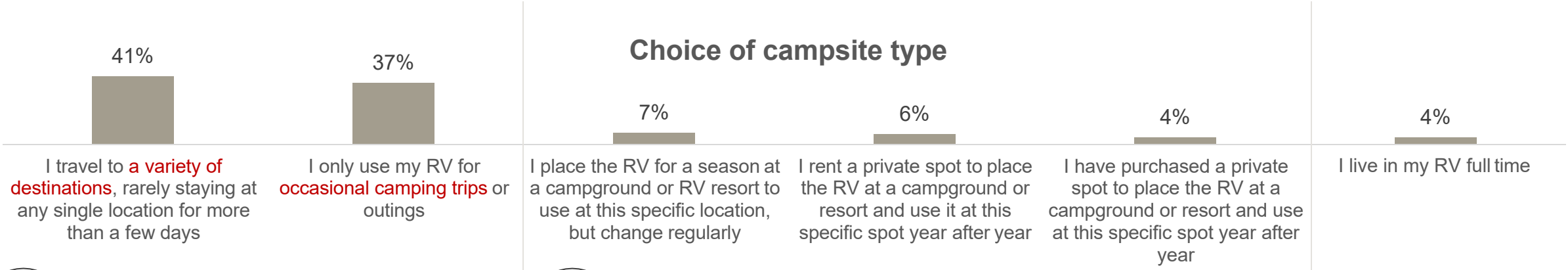
The age group is mainly over 55 years old, accounting for 49%, mainly male.

Household income is generally above 45,000$, accounting for 72%.

Travel time is mostly in summer, and the average travel time per year is 20 days/year.

User portrait—RV Campers portrait

On the selection of RV camps: choose RV camping areas in national parks or choose camping destinations or KOA camps by yourself. RV camping sites in national parks or self-selected camps generally do not have power supply, and need to be powered by the RV's own power system or Built-in backup power.



78% Move

What types of campsites have you stayed at in the past year? (Top 5)

- **46%:** State Park/Recreation Area Campground
- **41%:** Private Campground (KOA, etc.)
- **33%:** National Park Campground
- **31%:** RV Resort
- **28%:** Local Park Campground

17% Park

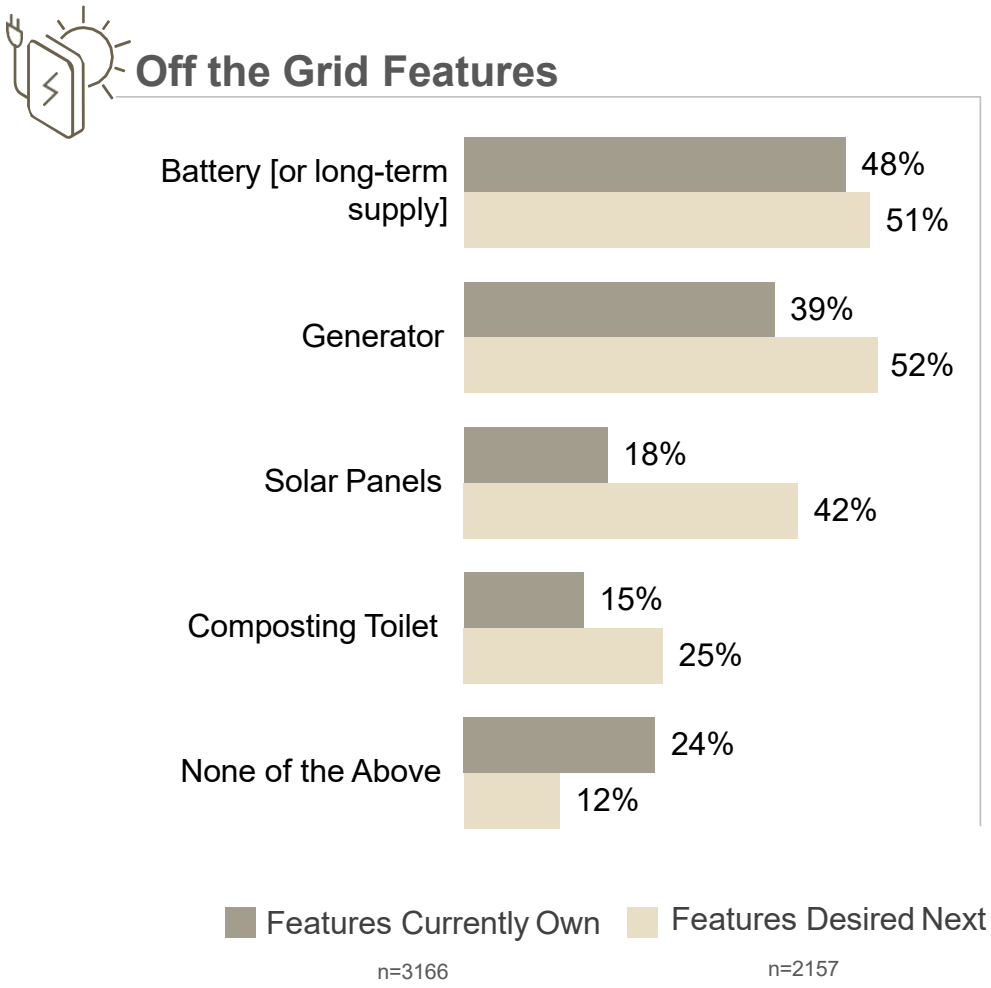
What types of campsites describe the spot you own/rent for your RV? (Top 5)

- **32%:** Private Land/Campsite
- **24%:** Private Campground (KOA, etc.)
- **24%:** RV Resort
- **6%:** State Park/Recreation Area Campground
- **6%:** National Park Campground

Data Sources from: 《Recreation Vehicle (RV) Owner Demographic Profile》

User portrait—RV Campers portrait

Expected features of RV off-grid power supply



RV camping people's demand for power supplement in off-grid state: long battery life/capable of self-generated power/solar panels

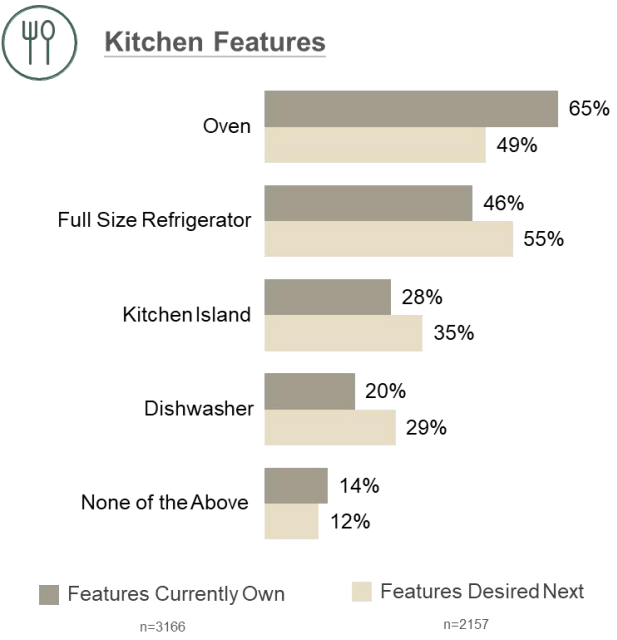
Data Sources from: 《Recreation Vehicle (RV) Owner Demographic Profile》

User portrait—RV Campers portrait

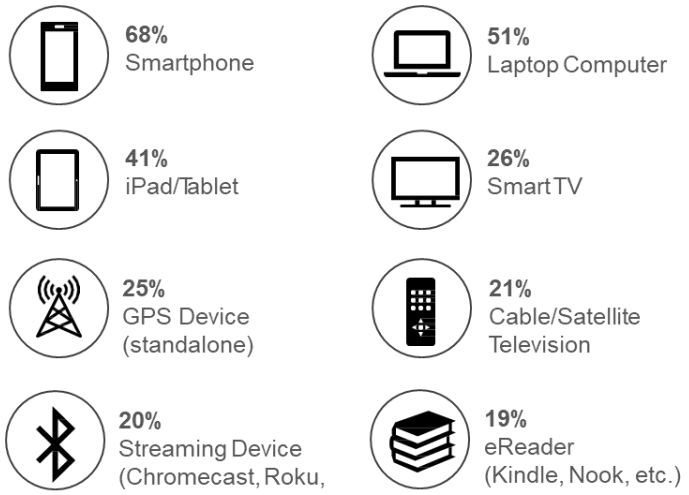
Common digital products: mobile phones/computers/tablets/TVs, etc., the power is basically below 100W

In the survey on the comfort of RV users, AC charging is the highest expectation for RVs, followed by hot water/heating

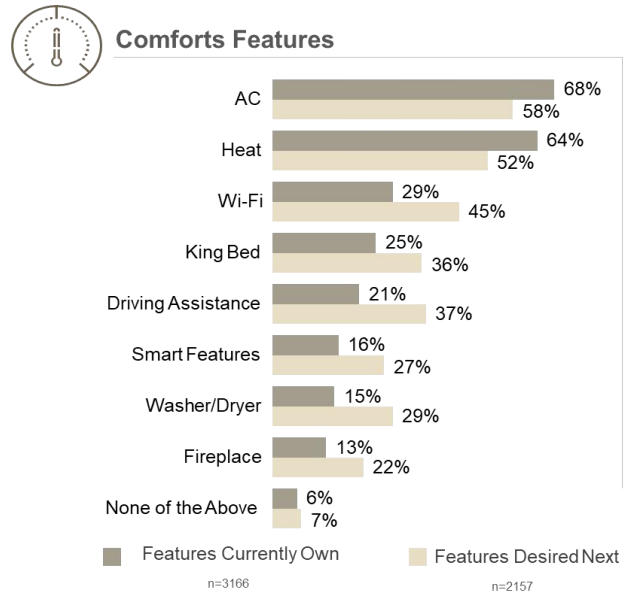
The most used electrical equipment in the RV kitchen is: oven/refrigerator/dishwasher



Always carry electronic equipment



expected features



Data Sources from： 《Recreation Vehicle (RV) Owner Demographic Profile》

Advantages: Explorer 2000 Plus Vs Explorer 2000 Pro

Model	Jackery Explorer 2000Plus	Jackery Explorer 2000Pro	Advantage
MSRP	$2199.99	$2099.00	
Cell Chemistry	**LiFePO4**	Li-ion NMC	Both Mature technology
Capacity	2042.8Wh	2160Wh	
Continuous Output	**3000W**	2200W	↑ Increased by 48%
Features	Fast Solar Recharging, Fits for Powering RV, **Tie Rod and Double Wheel Design**	Fast Solar Recharging	↑ Enhanced Portability
Lifecycles	**≥4000 cycles to 70%**	≥2000 cycles to 70%	↑ Enhanced Lifecycles
AC Adapter	2.0 hours	2.0 hours	
Outputs	**4*AC: 3000W**	3*AC: 2200W	↑ 1 more AC Interface
Operating Usage Temperature	Charging: **14-113F (-10-45℃)** Recharging: **32-113F (0-45℃)**	Charging: 14-104F (-10-40℃) Recharging: 32-104F (0-40℃)	↑ Expanded 9F(5℃) for Hot Resistence
Expandable with Battery station	**Yes**	No	Support Extra Battery Expanded
Noise level	**≤30DB**	≤53DB	↓Decreased 23DB for Ultra Silence

Selling point 1 - expandable capacity, long battery life; intelligent parallel system, high power

1、Relying on the Jackery capacity expansion technology patent (patent pending), it solves the problem of intelligent capacity expansion, supports single and multiple power packs to expand capacity at will, allows users to DIY capacity according to different scenarios, and supports capacity expansion up to 24 kilowatt-hours.

2、Relying on the Jackery AC parallel machine technology (invention patent application), it can achieve a maximum AC output of 6000W to meet the needs of users for greater power.

2kWh/3000W

6000W/24kWh

Selling point 2 - Safe and healthy fast charging: not only fast, but also pay more attention to safety

1. **Adopt Step Charge safe fast charging technology** (patent applied for) to ensure that the battery operates at the highest efficiency and optimal state, thereby maximizing battery life and performance. At the same time, it reduces the risk of lithium decomposing during low-temperature charging and the risk of thermal runaway during high-temperature charging, and improves the safety of charging the whole machine. The wall charger can be fully charged in 2 hours, and the solar charger can be fully charged in 2 hours.
2. **BMS twelve-layer double-layer protection mechanism**: the intelligent battery management system collects all aspects of data of the battery cell in real time through sensors, and performs overvoltage/undervoltage, high temperature/low temperature, overcurrent/overload, short circuit, communication failure, circuit failure, Customized 12-layer double-layer protection for emergency scenarios such as excessive pressure difference, excessive temperature difference, and battery failure.
3. **Safety defense system combined with software and hardware**: four physical safety protection systems + all-round software self-inspection, inverter protection system, optical charging module protection system, DC module protection system to build the first layer of physical protection mechanism, BMS protection system construction The second layer of physical protection mechanism, a total of 62 protections form a double physical protection mechanism. At the same time, the software completes a full range of protection self-inspection during startup and running, and completes a safety self-inspection refresh in an average of 1 second during operation.
4. **High temperature charging is also safe**, even at a high temperature of 45°C, it can be fully charged safely. (about 5.5H full).

Selling point 3 - Super long cycle life

1. Adopt lithium iron phosphate batteries with high cycle life, 4000 cycles to 70%+*.

2. Support shallow charging and shallow discharge (70% DOD) to choose at will, choose the power according to actual needs, and extend the battery life by 1.5 times.

Test conditions: 25°C, 0.5C/0.5C, 90%DOD, 70%SOH

Selling point 4 - Benchmark-level light energy conversion rate, light charging can be fully charged within 2 hours at the fastest

1. **The 200W solar panel of 2000 Plus adopts the industry-leading industrial-grade battery——IBC battery.**

Leading high-efficiency solar cell technology: The photoelectric conversion efficiency is as high as 25%, and more light can be converted into electricity in the same area.

Low light conversion efficiency is high, and it can generate electricity even in cloudy days: IBC battery characteristics are better for light absorption in various bands (especially non-visible light bands such as short and long bands).

2. The 2000 Plus and 2000 Plus power packs can support up to 6 pieces of 200W solar charging, and can be fully charged within 2 hours at the fastest.

3. 2000 Plus is equipped with a 200W solar panel, and the charging conversion efficiency is as high as 97% (for example, 200W solar power, 2000 Plus can convert 194W).

Selling point 5 - Peace of mind

1. Unique silent charging mode, the maximum noise is as high as 30DB, the quiet level of the library (the charging time in silent mode takes 4.5 hours).

2. Relying on the Jackery heat dissipation system, the unique self-heat dissipation technology is adopted, the temperature consistency is good, the dependence on the fan is reduced, and the user has a quieter experience.

3. In the non-quiet mode, the patented heat dissipation technology is adopted, and the maximum charge at room temperature is 42DB (patent number: CN115289052A).

Selling point 6 - 24/7 control and connectivity, multiple user-definable settings

1. Multiple connection modes Bluetooth and WiFi dual-mode communication, covering a variety of outdoor and indoor usage scenarios.

2. Real-time device status at a glance Remotely control the device, real-time control of the device's power, input and output power, available time and other device status.

3.Realize more user-defined settings and more advanced function settings, such as: Select battery saving mode according to actual needs to prolong battery life. Fast charging and silent charging are optional, and the noise of silent charging mode is ≤30dB. The energy-saving mode can freely choose the duration through the APP (the silent charging mode needs to be connected to the APP setting).

THANKS

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