



## Energize your next RV adventure

*5 RV electrical systems inside*

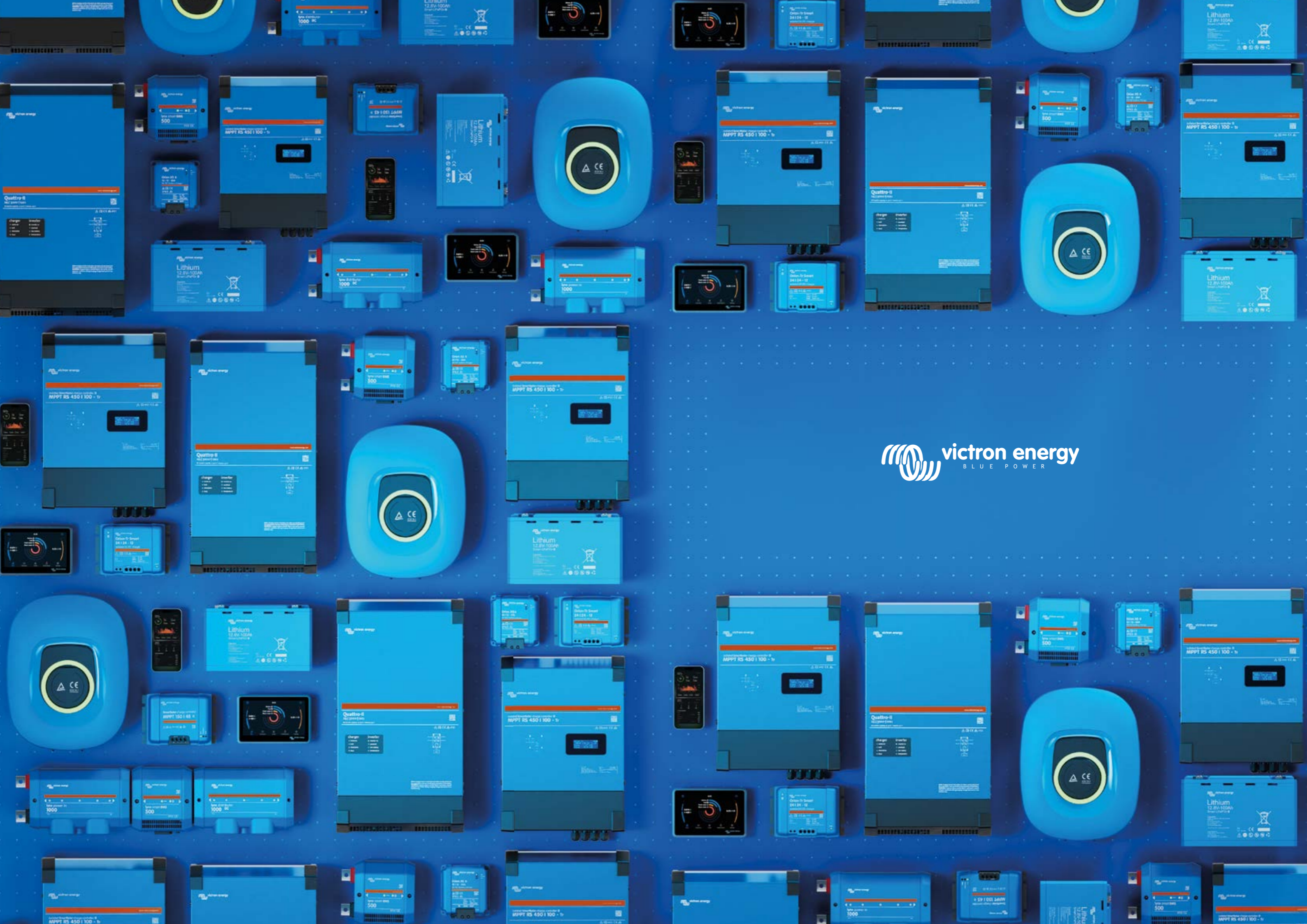
### Ready to upgrade your RV?

- ✓ Latest RV electrical systems
- ✓ Free brochure to take home

Curious?  
See Page 20 inside!



**victron energy**  
BLUE POWER



 **victron energy**  
BLUE POWER



**Adventure. Powered by know-how.**

When you're ready to take your RV off the grid, no matter where adventure takes you, it's good to know the power of know-how is by your side.

**Energy. Anytime. Anywhere.**

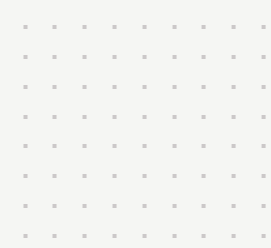


## How do you design robust RV power systems that can bring the comfort of home anywhere you go?

The solution is powered by know-how. With over 45 years of experience, Victron Energy has learned what it takes to build off-grid systems that stand the test of time and harsh environments. Our modular building blocks can meet any off-grid energy challenge and make your home away from home feel like home. Our customers value the reassurance that our power solutions deliver, knowing they have a nationwide network of authorized dealers by their side. They know we don't cut corners. They know our family-owned and operated business is built on a foundation of trust they can always depend on.

**Energy. Anytime. Anywhere.**





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**i** The examples in this brochure apply to a mains voltage of 120V AC. If your mains voltage is 230V AC, use our 230V components where needed. No further design changes required in these examples.



UPGRADE YOUR POWER SYSTEM

# Smart energy solutions for any RV adventure

More than 1 million users worldwide



Charge your batteries with smart and efficient solar chargers.

Run your air conditioner through the night without using grid/campsite power or generator thanks to a battery bank upgrade.

Monitor your batteries, tanks, and temperatures locally and remotely with a GX communication center and added sensors. Be assured of assistance by your dealer in case something is about to go wrong.

Monitor the state of charge of your batteries and time to go with our app thanks to the SmartShunt and BMV battery monitors.

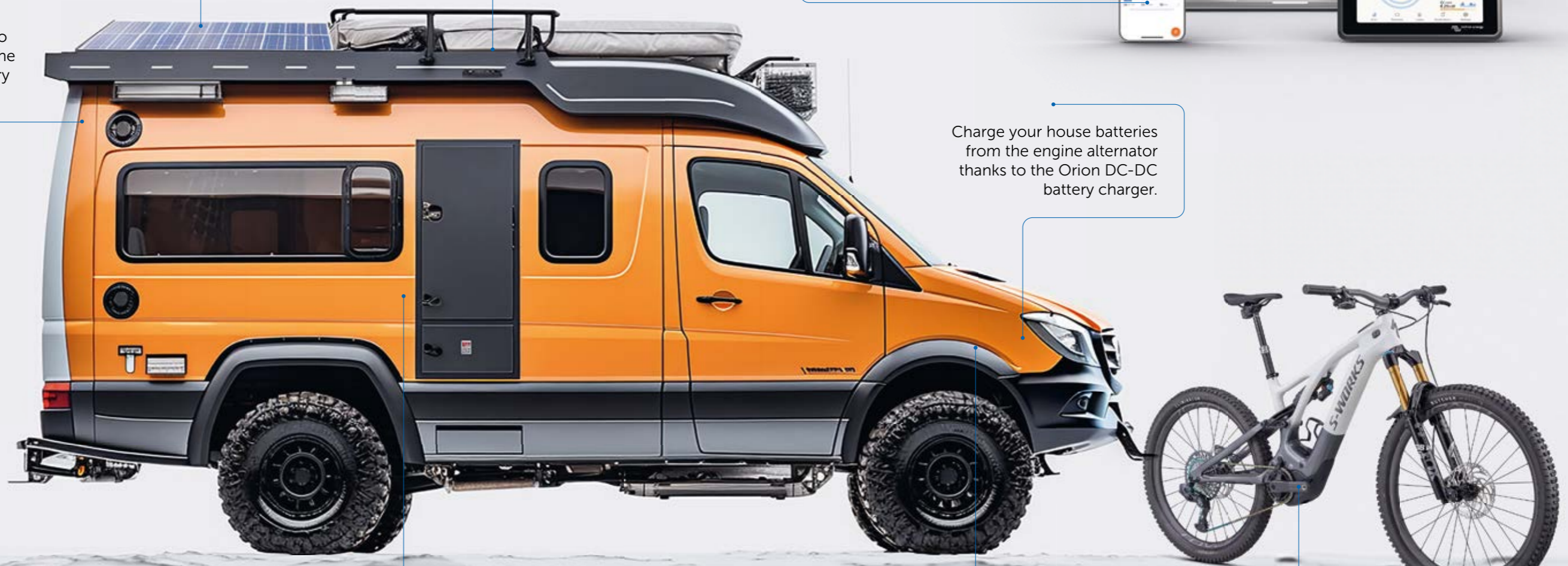
Don't worry about tripping the shore power breaker, thanks to the configurable AC input current limit.

Charge your house batteries from the engine alternator thanks to the Orion DC-DC battery charger.

Minimize generator size and fuel consumption thanks to our Quattro and MultiPlus-II Inverter/chargers with PowerAssist which let the batteries assist to handle high peak power demands.

Run your lights, kitchen appliances, coffee machine, oven, satellite tv and fridge thanks to an Inverter/charger.

Charge your e-bikes when you are off the grid.



ⓘ The features highlighted depends on your system configuration. Please see page 30 for details.

# Go off-grid with confidence and comfort

Go off-grid with confidence while enjoying the comforts of home. Stay in control with our smart and reliable power system. Ensuring everything runs smooth for those epic, extended journeys!

## Tailored solutions for your needs

Whether you're in a pop-up trailer or motorhome, Victron Energy has you covered. Power your adventure with confidence, running both light and heavy electrical devices.

## Extended off-grid living

Our electrical systems seamlessly invert power from batteries and solar to run any device problem free. Utilizing PowerAssist, PowerControl, and Adaptive Charging, our intelligent hybrid approach optimizes the system, reducing battery drain, cutting generator and grid usage and extending off-grid periods. Use simple controls according to your preference and let our algorithms do the rest.

## The ultimate boondocking experience

### 2x the peak performance

Victron Energy inverters can handle double the continuous power specifications, effortlessly managing temporary peak demands for devices like pumps, motors, compressors and air conditioners. \*



### Extra power with PowerAssist

The unique PowerAssist feature energizes devices in scenarios with limited grid or generator power, blending power sources like grid and battery for additional power beyond temporary peak demands.



### Avoid breaker tripping

Avoid overloading and breaker tripping by using PowerControl to adjust to the maximum available grid or generator power – even when devices demand more power.

## Extended autonomy

Automatically power down devices when going off-grid, conserving energy for essential equipment. Some of our inverters feature a secondary AC output that deactivates when your vehicle is not connected to the grid or generator.

## Increased battery life

Victron Energy utilizes smart 4-stage charging to boost battery life, preventing overcharging (Adaptive Charge), guarding against excessive gassing (Battery Safe Mode), and preserving batteries during extended non-use (Storage Mode).



ADAPTIVE CHARGE

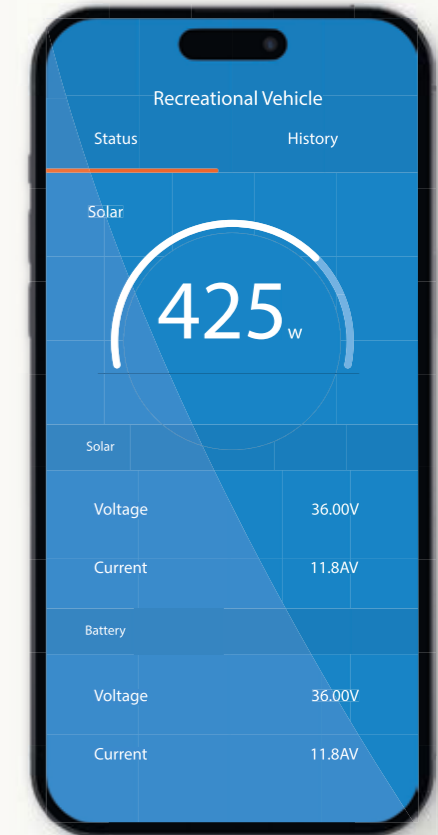
## Always in perfect control

### Intelligent control

Create intelligent power monitoring rules with the Cerbo GX communication center. For instance, prevent late-night generator starts, or disconnect power-hungry devices as the battery reaches a specific level. \*

### Use any device

Victron Energy's products work seamlessly together and can be monitored and managed from anywhere in the world. Our free VictronConnect app, VRM portal and app widgets run smoothly on your phone or laptop of choice. \*



\* The features highlighted depends on your system configuration. Please see page 30 for details.



## Monitor your RV from anywhere

Monitor complete energy systems, tanks and temperatures remotely. Control systems with ease, maximize the performance and catch issues early with push notifications. \*



## Travel confidently in safety

Victron Energy upholds rigorous safety standards for its devices, exemplified by our inverters' protection against over- and under-voltage, overload, overheating, and short circuit situations. You can even remotely monitor your RV and set alarms with the unique Victron Remote Monitoring portal (VRM).

## Reliability for peace of mind

### Keep devices running when power fails

In the event of a grid failure, or when grid or generator power is disconnected, the inverter automatically takes over the power supply. Electronic equipment continues to operate on available battery power without any disruption.

### Protect sensitive devices

Our inverter technology produces true sine wave output with rock-solid voltage and frequency stability suitable for even the most sensitive AC loads, such as your laptop and mobile phone.

### Adventure-ready gear

Victron Energy's electrical components are engineered to excel in the toughest conditions, earning the trust of millions of global customers. Its quality, robust Dutch design, and durable materials ensure it stands strong against the toughest challenges.

## Your investment, our commitment: 5-year warranty

With Victron Energy, you're covered by a 5-year warranty on all power electronics, ensuring your investment is solid and satisfying for years ahead \*\*.



## Simple installation

### Easy installation and configuration for DIY enthusiasts and professionals

Victron Energy products are designed for ease of use. Basic installation is swift and can be managed by yourself. For more complex setups, partnering with our authorized dealers is also an option. Are you a DIY enthusiast? An extensive online community is there to assist as well.

### Get help remotely

With the Victron Remote Monitoring platform (VRM), you gain the capability to remotely monitor and configure your RV's electrical system. You can even create an account for your RV store or distributor, enabling remote assistance during emergencies. \*

# Experience your adventure with peace of mind, supported by advanced safety measures

### Heat protection

Heat sensors within the components ensure that the MultiPlus and Quattro will protect themselves in high ambient and operating temperature conditions.

### Shock protection

Robust Dutch design. Durable materials ensure it stands strong against the toughest challenges. All of our product designs are based on a history of building to the rugged demands of the marine industry.

### Remote monitoring

Close-range monitoring via Bluetooth and the VictronConnect app. Remote monitoring through the Victron Remote Monitoring (VRM) platform.

### Extreme weather protection

Operates in all climates. From -40 to +150°F with assisted cooling.

### Voltage protection

The system detects under and over voltage situations so the power to your system will remain in acceptable operating ranges.

### Overload protection

With PowerAssist, you can leave concerns about overloading your power supply behind. Our inverters also protect themselves when AC loads exceed their maximum rating.

### Alarm notifications

Receive alerts for any system Alarms or Warnings directly on your smart device.

### Battery protection

Overcharge protection of the battery with smart charge.

### Short Circuit Protections

The system safeguards itself from short-circuit incidents.



① \* The features highlighted depends on your system configuration. Please see page 30 for details. \*\* Depending on your situation, you will even receive 10 years warranty. For the most up-to-date details on warranty coverage, please refer to our website.





# Experience the power of Victron Energy Monitoring



The VRM platform is free to use

More than 1 million users worldwide

Bringing the best of Victron systems together in a powerful experience which will redefine life on the road. Thanks to the know-how that powers our connected products, you can monitor and control your systems, prevent issues and resolve faults straight from your GX touchscreen, VictronConnect app or VRM remote monitoring portal.

Know more at  
[victronenergy.com/monitoring](https://victronenergy.com/monitoring)

**Energy. Anytime. Anywhere.**

Works with



VictronConnect app



Remote monitoring portal



**Comfort. Powered by know-how**


When you appreciate the comfort of home in an RV that feels like home, it's good to know the power of know-how is by your side.

**Energy. Anytime. Anywhere.**

# Pack 1 | 12 Volt / 1.2k Power




1




**Solar Panels**  
Up to 220W

2




**Solar Charger**  
SmartSolar Charge Controller  
MPPT 75 | 15

3




**Inverter**  
VE.Direct  
12V 1200VA 120V  
VE.Direct NEMA GFCI

4




**Battery Charger**  
Blue Smart IP22  
Charger  
12V 15A (1) 120V NEMA 5-15

5




**Battery**  
Lithium SuperPack  
LiFePO4  
12.8V 100Ah 1280Wh M8  
High Current

6



**Battery Protector**  
Smart BatteryProtect  
12V - 24V | 65A

7



**Battery Monitor**  
Smart Battery Monitor  
BMV-712 Smart

## Main system components explained

1. **Solar panels.** Collects solar energy. Choose your preferred solar panel brand, up to 220W.
2. **Solar Charger.** SmartSolar. Maximizes the harvest of solar energy to fast charge the batteries.
3. **Inverter.** VE.Direct. Converts 12V to a 110V/120V pure sine wave to safely power any appliance.
4. **Battery Charger.** Blue Smart IP22. Efficiently charges batteries using adaptive charge technology.
5. **Battery Pack.** Lithium SuperPack LiFePO4 - stores and distributes energy.
6. **Battery Protector.** Safeguards battery power by disconnecting DC loads to prevent complete discharge.
7. **Battery Monitor.** BMV. Monitors energy consumption and remaining battery power.

Optimized for a smaller footprint, this system powers your small tv, basic household appliances and can safely charge your camera, drone, laptop etc. \*

1200VA  
Power

2200W  
Peak

1280Wh  
Storage

12V

## Advantages

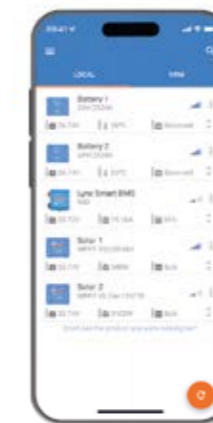
- Budget friendly solution
- Perfect for a 12V electrical system
- Minimal space required and lean set-up
- Perfect for a small RV or towable
- Safely charges your basic household appliances
- Local / near-range monitoring, configuration and control via Bluetooth
- Battery monitoring via local display and via the VictronConnect app
- Smart and efficient solar charging technology



- ① **More information about this system** at [victronenergy.com/markets/recreational-vehicles](https://victronenergy.com/markets/recreational-vehicles) or scan the QR code. You can also find detailed technical drawings for installation.
- ① **See a detailed feature list of all packs** on [page 30](#)

## Monitoring, configuration and control

- Solar charger
- Battery charger
- Battery status
- Battery protection




- Battery monitoring via local display and via the VictronConnect app




- ① Remote monitoring is not included in this pack, add a communication center to enable remote capabilities.

Which monitoring solution is right for you?  
Check [victronenergy.com/monitoring](https://victronenergy.com/monitoring)


## Example of devices powered \*




Led lights




Small Fan



Laptop



Small TV












Phone

\* All system calculations subject to individual use profile of each system operator and solar conditions for geographical location of system. Approx values, depends on solar irradiance factors and system usage. Of which 80% is usable storage capacity for lithium and 50% for lead-acid batteries. The examples in this brochure apply to a mains voltage of 120V AC. If your mains voltage is 230V AC, use our 230V components where needed.



# Pack 2: 12 Volt / 2k Power



<p>1</p>  <p><b>Global Monitoring</b> GlobalLink 520</p>	<p>2</p>  <p><b>Solar Charger</b> SmartSolar Charge Controller MPPT 100   30</p>	<p>3</p>  <p><b>Inverter/charger</b> MultiPlus 12/2000/80-50 120V VE.Bus (UL)</p>	<p>4</p>  <p><b>Close Range Monitoring</b> VE.Bus Smart Dongle</p>
<p>5</p>  <p><b>Batteries (2x)</b> Lithium SuperPack LiFePO4 12.8V 100Ah 1280Wh M8 High Current</p>	<p>6</p>  <p><b>Battery Protector</b> Smart BatteryProtect 12V - 24V   100A</p>	<p>7</p>  <p><b>Battery Monitor</b> SmartShunt 500A / 50mV</p>	<p>8</p>  <p><b>Solar Panels</b> Up to 440W</p> <p>9</p>  <p><b>Multiple Cables</b> RJ45 UTP Cable 3m ** VE.Direct Cable 3m (2x)</p>

Optimized for a medium footprint, this system typically powers your tv and household appliances such as a small hairdryer, microwave, coffee maker and e-bikes.\*

2000VA  
Power

4000W  
Peak

2560Wh  
Storage

12V

### Advantages

- Perfect for a medium sized RV with a 12V electrical system
- Double the battery storage of pack 1
- Monitor, control and configure your system locally / near-range via Bluetooth
- Monitor your system remotely through the GlobalLink 520, which includes 5 years of free 4G LTE-M connectivity, product 1) \*\*\*
- The VictronConnect app and the Victron Remote Monitoring platform (VRM) can be used
- Smart and efficient solar charging technology



- ⓘ More information about this system at [victronenergy.com/markets/recreational-vehicles](https://victronenergy.com/markets/recreational-vehicles) or scan the QR code. You can also find detailed technical drawings for installation.
- ⓘ See a detailed feature list of all packs on [page 30](#)

### Monitoring, configuration and control

- Solar charger
- Inverter/charger
- Battery status
- Battery protection



Local  
monitoring  
& full control

Bluetooth

Remote  
Monitoring

4G  
LTE-M

ⓘ The GlobalLink communication center includes 5 years of free 4G LTE-M connectivity\*\*\*

Which monitoring solution is right for you?  
Check [victronenergy.com/monitoring](https://victronenergy.com/monitoring)


### Main system components explained


1. **Global Monitoring.** GlobalLink 520. Enables worldwide monitoring and relay control with the VRM portal. \*\*\*
2. **Solar Charger.** SmartSolar. Maximizes the harvest of solar energy to fast charge the batteries.
3. **Inverter/charger:** MultiPlus. Converts 12V to a 110V / 120V pure sine wave to safely power any appliance.
4. **Close Range Monitoring.** VE.Bus Smart Dongle. Enables Bluetooth for the MultiPlus Inverter/charger.
5. **Battery Packs.** 2x Lithium SuperPack LiFePO4. Stores and distributes energy.
6. **Battery Protector.** Safeguards battery power by disconnecting DC loads to prevent complete discharge.
7. **Battery Monitor.** SmartShunt. Monitors energy consumption, remaining battery power and more.
8. **Solar panels.** Collects solar energy. Choose your preferred solar panel brand, up to 440W.
9. **Multiple cables.** 1x RJ45 UTP Cable 3m and 2x the VE.Direct Cable 3m (3x).


### Example of devices powered \*


All devices of system 1

+

  
Small microwave

  
Hairdryer

  
E-bikes

  
Small coffee machine

\* All system calculations subject to individual use profile of each system operator and solar conditions for geographical location of system. Approx values, depends on solar irradiance factors and system usage. Of which 80% is usable storage capacity for lithium and 50% for lead-acid batteries. The examples in this brochure apply to a mains voltage of 120V AC. If your mains voltage is 230V AC, use our 230V components where needed. \*\* RJ45 UTP Cable length depends on the size of your RV and set-up.

\*\*\* The GlobalLink offers remote monitoring and its relay can be remote controlled. For remote settings or firmware updating, upgrade to a GX communication center. Check out page 30 for the details of the pack or go to [victronenergy.com/monitoring](https://victronenergy.com/monitoring) for more info.



# Pack 3: 12 Volt / 3k Power



<p>1</p>  <p><b>Distributor / Busbar</b> Lynx Distributor (M8) 1000</p>	<p>2</p>  <p><b>Solar Charger</b> SmartSolar Charge Controller MPPT 100 / 50</p>	<p>3</p>  <p><b>Inverter/charger</b> MultiPlus-II 12/3000/120-50 2x120V (UL)</p>	<p>4</p>  <p><b>Control Touchscreen</b> GX Touch 50</p>
<p>5</p>  <p><b>Smart Batteries (2x)</b> Lithium Smart LiFePO4 12.8V/200Ah Smart</p>	<p>6</p>  <p><b>Battery Protector</b> Smart BatteryProtect 12V - 24V   220A</p>	<p>7</p>  <p><b>Battery Management System</b> VE.Bus BMS V2</p>	<p>8</p>  <p><b>Global Monitoring</b> Cerbo GX</p>
<p>9</p>  <p><b>Battery Monitor</b> SmartShunt 500A / 50mV</p>	<p>10</p>  <p><b>DC-DC Charger</b> Orion XS 12/12-50A DC-DC battery charger</p>	<p>11</p>  <p><b>Battery Charger</b> Blue Smart IP65 12V 5A (1) 120V NEMA 1-15P</p>	<p>12</p>  <p><b>Solar Panels</b> Up to 700W</p>
<p>13</p>  <p><b>Multiple Cables</b> RJ45 UTP Cable 3m (2x) VE.Direct Cable 3m (3x)</p>			

Optimized for a larger footprint, this system typically powers your large flatscreen tv and heavier household appliances such as dryers, microwaves, coffee maker, small water heater and can charge multiple e-bikes.\*

3000VA  
Power

6000W  
Peak

5120Wh  
Storage

12V

### Advantages

- Perfect for a medium to large sized RV with a 12V electrical system
- Safe house battery charging with power from the engine's alternator
- Smart local monitoring & full control with VictronConnect
- Global monitoring, configuration and full control thanks to the Cerbo GX (connect to internet for remote capabilities)
- Smart and efficient solar charging technology



- 📄 More information about this system at [victronenergy.com/markets/recreational-vehicles](https://victronenergy.com/markets/recreational-vehicles) or scan the QR code. You can also find detailed technical drawings for installation.
- 📄 See a detailed feature list of all packs on [page 30](#)

### Monitoring, configuration and control

- Solar charger
- Inverter/charger
- Battery status
- Battery protection
- DC-DC charger



Local  
monitoring  
& full control


Remote  
monitoring  
& full control


Which monitoring solution is right for you?  
Check [victronenergy.com/monitoring](https://victronenergy.com/monitoring)


### Example of devices powered \*


All devices of system 1 & 2


+

  
Bigger  
microwave

  
Larger  
TV

  
Multiple  
e-bikes

  
Small water  
heater 120V

  
Aircon A/C  
(11.5k - 13kbtu)

### Main system components explained

- Distributor / Busbar.** Lynx Distributor (M8) 1000. A fusible DC busbar with 4 DC circuits per module.
- Solar Charger.** SmartSolar. Maximizes the harvest of solar energy to fast charge the batteries.
- Inverter/charger.** MultiPlus-II. Converts 12V to a 110V / 120V pure sine wave to safely power any appliance.
- Control Touchscreen.** GX Touch. Overview of your system and easily adjust settings via touchscreen.
- Smart Batteries.** 2x Lithium Battery Smart LiFePO4: stores and distributes energy. Bluetooth enabled.
- BatteryProtect.** Safeguards battery power by disconnecting DC loads to prevent complete discharge.
- Battery Management System.** VE.Bus BMS V2. Monitors battery and communicates with the MultiPlus.
- Global Monitoring.** Cerbo GX. Enables worldwide monitoring and control (Victron Remote Portal).
- Battery Monitor.** SmartShunt. Monitors energy consumption, remaining battery power and more.
- DC-DC Charger.** Orion XS. Charges the 12V house batteries with 12V coming from the engine alternator.
- Battery Charger.** Blue Smart IP65. It charges and maintains the starter battery of the RV.
- Solar panels.** Collects solar energy. Choose your preferred solar panel brand, up to 700W.
- Multiple cables.** RJ45 UTP Cable 3m (2x) and VE.Direct Cable 3m (3x).

\* All system calculations subject to individual use profile of each system operator and solar conditions for geographical location of system. Approx values, depends on solar irradiance factors and system usage. Of which 80% is usable storage capacity for lithium and 50% for lead-acid batteries. The examples in this brochure apply to a mains voltage of 120V AC. If your mains voltage is 230V AC, use our 230V components where needed.



# Pack 4: 24V / 3k Power



<p>1</p>  <p><b>DC-DC Converter</b> Orion-Tr 24V / 12V - 30A (360W) Isolated DC-DC Converter</p>	<p>2</p>  <p><b>Solar Charger</b> SmartSolar Charge Controller MPPT 150 / 60 - Tr</p>	<p>3</p>  <p><b>Inverter/charger</b> MultiPlus-II 24/3000/70-50 2x120V (UL)</p>	<p>4</p>  <p><b>Battery Charger</b> Blue Smart IP65 12V / 5A (1) 120V NEMA 1-15P</p>
<p>5</p>  <p><b>Smart Batteries (2x)</b> Lithium Smart LiFePO4 25.6V / 200 Ah Smart-a</p>	<p>6</p>  <p><b>Battery Protector</b> Smart BatteryProtect 12V - 24V   220A</p>	<p>7</p>  <p><b>Battery Management System</b> VE.Bus BMS V2</p>	<p>8</p>  <p><b>Distributor / Busbar</b> Lynx Distributor (M8) 1000</p>
<p>9</p>  <p><b>DC-DC Charger (2x)</b> Orion-Tr Smart 12V / 24V - 15A (360W) Non-isolated DC-DC charger</p>	<p>10</p>  <p><b>Battery Monitor</b> SmartShunt 500A / 50mV</p>	<p>11</p>  <p><b>Control Touchscreen</b> GX Touch 50</p>	<p>12</p>  <p><b>Solar Panels</b> Up to 1720W</p>
<p>13</p>  <p><b>Global Monitoring</b> Cerbo GX (VRM)</p>	<p>14</p>  <p><b>Multiple Cables</b> RJ45 UTP Cable 3m (2x) VE.Direct Cable 3m (2x)</p>		

\* All system calculations subject to individual use profile of each system operator and solar conditions for geographical location of system. Approx values, depends on solar irradiance factors and system usage. Of which 80% is usable storage capacity for lithium and 50% for lead-acid batteries. The examples in this brochure apply to a mains voltage of 120V AC. If your mains voltage is 230V AC, use our 230V components where needed.

Optimized for a larger footprint, this system typically powers your large flatscreen tv and heavier household appliances such as a dryer, microwave, larger tv, small water heater and e-bike.\*

3000VA  
Power

6000W  
Peak

10240Wh  
Storage

24V

### Advantages

- Perfect for a medium to large sized RV with a 24V system
- Safe house battery charging with power from the engine's alternator
- Smart local monitoring & full control with VictronConnect
- Global monitoring, configuration and full control thanks to the Cerbo GX (connect to internet for remote capabilities)
- Smart and efficient solar charging technology



- 📄 More information about this system at [victtronenergy.com/markets/recreational-vehicles](https://victtronenergy.com/markets/recreational-vehicles) or scan the QR code. You can also find detailed technical drawings for installation.
- 📄 See a detailed feature list of all packs on [page 30](#)

### Monitoring, configuration and control

- Solar charger
- Inverter/charger
- Battery status
- Battery protection
- Alternator Charger



Local  
monitoring  
& full control

Bluetooth

Remote  
monitoring  
& full control

WiFi


Which monitoring solution is right for you?


Check [victtronenergy.com/monitoring](https://victtronenergy.com/monitoring)


### Example of devices powered


All devices of system 1, 2 & 3


+

  
Bigger microwave

  
Larger TV

  
Multiple e-bikes

  
Small Water heater 120V

  
Aircon A/C (11.5k - 13kbtu)





### Main system components explained

1. **DC-DC Converter.** Orion-Tr. Converts 24V from the house system to power 12V appliances of the RV.
2. **Solar Charger.** SmartSolar. Maximizes the harvest of solar energy to fast charge the batteries.
3. **Inverter/charger.** MultiPlus-II. Converts 24V to a 110V / 120V pure sine wave to safely power any appliance.
4. **Battery Charger.** Blue Smart IP65. Charges and maintains the starter battery of the RV.
5. **Smart Batteries.** 2x Lithium Battery Smart LiFePO4. Stores and distributes energy. Bluetooth enabled.
6. **Smart BatteryProtect.** Safeguards battery power by disconnecting DC loads to prevent complete discharge.
7. **Battery Management System.** VE.Bus BMS V2. Monitors battery and communicates with the MultiPlus.
8. **Distributor / Busbar.** Lynx Distributor (M8) 1000. A fusible DC busbar with 4 DC circuits per module.
9. **DC-DC Chargers.** 2x Orion-Tr Smart. Charges 24V house batteries with 12V coming from the alternator.
10. **Battery Monitor.** SmartShunt. Monitors energy consumption, remaining battery power and more.
11. **Control Touchscreen.** GX Touch 50. Overview of your system and easily adjust settings via touchscreen.
12. **Solar panels.** Collects solar energy. Choose your preferred solar panel brand, up to 1720W.
13. **Global Monitoring.** Cerbo GX. The communication center of your system to enable remote monitoring.
14. **Multiple cables.** RJ45 UTP Cable 3m (2x) and VE.Direct Cable 3m (2x).



# Pack 5: 24 Volt / 10k Power



<p>1</p>  <p><b>DC-DC Converter</b> Orion-Tr 24V   12V - 30A (360W) Isolated DC-DC converter</p>	<p>2</p>  <p><b>Solar Charger</b> SmartSolar Charge Controller MPPT 150   100 - Tr VE.Can</p>	<p>3</p>  <p><b>Inverter/charger (2x)</b> Quattro 24/5000/120-100/100 120V VE.Bus</p>	<p>4</p>  <p><b>Battery Charger (2x)</b> Blue Smart IP65 12V / 5A (1) 120V NEMA 1-15P</p>
<p>5</p>  <p><b>Battery Protector</b> Smart BatteryProtect 12V - 24V - 220A</p>	<p>6</p>  <p><b>Battery Management System</b> Lynx Smart BMS 1000 (M10)</p>	<p>7</p>  <p><b>Distributor / Busbar (3x)</b> Lynx distributor (M10)</p>	<p>8</p>  <p><b>Global Monitoring (VRM)</b> Cerbo GX</p>
<p>9</p>  <p><b>Smart Batteries (4x)</b> Lithium Smart LiFePO4 25.6V 200Ah Smart-a</p>	<p>10</p>  <p><b>DC-DC Charger (2x)</b> Orion-Tr Smart 12V / 24V - 15A (360W) Non-isolated DC-DC charger</p>	<p>11</p>  <p><b>Control Touchscreen</b> GX Touch 70</p>	<p>12</p>  <p><b>Solar Panels</b> Up to 2900W</p>
<p>13</p> <p><b>Multiple Cables</b> RJ45 UTP Cable 3m (3x) RJ45 UTP Cable 0,9 m (1x)</p>			

\* All system calculations subject to individual use profile of each system operator and solar conditions for geographical location of system. Approx values, depends on solar irradiance factors and system usage. Of which 80% is usable storage capacity for lithium and 50% for lead-acid batteries.

Optimized for a large footprint, this system typically powers heavier household appliances such as washers, ACs (in the night), induction hobs, coffee makers, water heaters, toasters and pumps. \*

10kVA  
Power

20kW  
Peak

20480Wh  
Storage

24V

## Advantages

- Perfect for a larger sized RV with a 24V electrical system
- Safe house battery charging with power from the engine's alternator
- Optimal mix of high power and extended run time
- Pack 5 has 3x the inverter power and 2x the battery capacity of Pack 4
- Smart local monitoring & full control with VictronConnect
- Global monitoring, configuration and full control thanks to the Cerbo GX (connect to internet for remote capabilities)
- Smart and efficient solar charging technology



- 📄 More information about this system at [victronenergy.com/markets/recreational-vehicles](https://victronenergy.com/markets/recreational-vehicles) or scan the QR code. You can also find detailed technical drawings for installation.
- 📄 See a detailed feature list of all packs on [page 30](#)

## Monitoring, Configuration and Control

- Solar charger
- Inverter/charger
- Battery status
- Battery protection
- DC fuse status
- Alternator Charger




Which monitoring solution is right for you?


Check [victronenergy.com/monitoring](https://victronenergy.com/monitoring)


## Example of devices powered \*


All devices of system 1,2,3 & 4

+

  
Washer

  
Induction hob

  
Water heater  
120V

  
Multiple ACs

## Main system components explained

1. **DC-DC Converter.** Orion-Tr. Converts 24V from the house system to power 12V appliances of the RV.
2. **Solar Charger.** SmartSolar. Maximizes the harvest of solar energy to fast charge the batteries.
3. **Inverter/charger.** 2x Quattro. Converts 24V to a splitphase 2x 120V & 240V pure sine wave to safely power any appliance.
4. **Battery Charger.** Blue Smart IP65. Charges and maintains the starter battery of the RV.
5. **BatteryProtect.** Safeguards battery power by disconnecting DC loads to prevent complete discharge.
6. **Battery Management System.** Lynx Smart BMS. Monitors batteries, communicates with Cerbo GX and connected devices.
7. **Distributor / Busbar.** 3x Lynx. Modular busbar and shunt to monitor your batteries and fuses.
8. **Global Monitoring.** Cerbo GX. The communication center of your system to enable remote monitoring.
9. **Smart Batteries.** 4x Lithium Battery Smart LiFePO4. Stores and distributes energy. Bluetooth enabled.
10. **DC-DC Charger.** 2x Orion-Tr Smart. Charge 24V house batteries with 12V coming from engine alternator.
11. **Control Touchscreen.** GX Touch 70. Overview of your system and easily adjust settings via touchscreen.
12. **Solar panels.** Collects solar energy. Choose your preferred solar panel brand. Up to 2900W.
13. **Multiple Cables.** RJ45 UTP Cable 3m (3x) and RJ45 UTP Cable 0.9m (1x).



## Details features per pack

Features	Pack 1	Pack 2	Pack 3	Pack 4	Pack 5
Power	1200VA	2000VA	3000VA	3000VA	10000VA
Voltage	12V	12V	12V	24V	24V
Storage	1280Wh	2560Wh	5120Wh	10240Wh	20480Wh
PowerAssist		x	x	x	x
PowerControl		x	x	x	x
Input Current Limit		x	x	x	x
Peak power boost: 2x power for start-up loads	almost (2200W)	x	x	x	x
ACout2			x	x	x
ON/OFF/Charger Only switching	separate devices	x	x	x	x
LiFePO4 Battery compatible	x	x	x	x	x
Configurable charge profile	x	x	x	x	x
Chassis Battery Charger AC			x	x	x
Protected Alternator Charging			x	x	x
Genset Battery Charger AC					x
Temperature compensated charging	x	x	x	x	x
Internal transfer switch-grid/inverter		x	x	x	x
Adjustable inverter Hz (50Hz or 60Hz)	x	x	x	x	x
Can charge a dead battery	x	x	x	x	x
Low DC voltage cut-off	x	x	x	x	x
Output short circuit protection	x	x	x	x	x
Overload protection	x	x	x	x	x
AC Overvoltage protection	x	x	x	x	x
Over-temperature protection	x	x	x	x	x
Programmable relays	x (1) - BMV	x(2)	x(4)	x(4)	x(8)
Aux inputs		x	x(2)	x(2)	x(4)
Ground relay (Auto N-PE Bonding)	Fixed w/ jumper	x	x	x	x
Parallel/Multi-phase expandible		x	x	x	x
Eco/AES mode	x	x	x	x	
Local monitoring via VictronConnect (Bluetooth)	x	x**	x**	x**	x**
Remote Monitoring via VRM Portal		x***	x****	x****	x****
Remote Firmware updates			x	x	x
Remote configuration of settings			x	x	x
Invite users to view system remotely		x	x	x	x
Solar Production Forecast		x	x	x	x
Low/High Battery Cell Temp protection	x	x	x	x	x
Low/High Battery Cell Voltage protection	x	x	x	x	x
Remote Alarm Notifications		x	x	x	x
5 year warranty*	x	x	x	x	x
10 year warranty option*	x	x	x	x	x

\* Power electronics only. LiFePO4 batteries have a standard 3-year limited warranty

\*\* Smart Bluetooth devices and devices upgraded with an additional Bluetooth dongle only

\*\*\* VE.Direct and Bluetooth devices only

\*\*\*\* VE.Direct, VE.Bus and VE.Can devices only



## Product details per pack

Pack 1		12 Volt / 1.2k Power	
Article number	Description	Type	Quantity
SCC075015060R	SmartSolar MPPT 75/15	Solar Charger	1
BAM030712000R	Battery Monitor BMV-712 Smart	Battery Monitor	1
BPC121545102	Blue Smart IP22 Charger 12/15(1) 120V NEMA 5-15	Battery Charger	1
BPR065022000	Smart BatteryProtect 12/24V-65A	Battery Protect	1
PIN122122510	Inverter. VE.Direct. 12/1200 120V VE.Direct NEMA GFCI	Inverter	1
BAT512110710	Lithium SuperPack 12,8V/100Ah (M8) High Current	Battery	1



[victtronenergy.com/markets/recreational-vehicles](https://victtronenergy.com/markets/recreational-vehicles)

Pack 2		12 Volt / 2k Power	
Article number	Description	Type	Quantity
PMP122200102	MultiPlus 12/2000/80-50 120V VE.Bus (UL)	Inverter/charger	1
SCC110030210	SmartSolar MPPT 100/30	Solar Charger	1
SHU050150050	SmartShunt 500A/50mV	Smart Shunt (battery monitor)	1
BPR110022000	Smart BatteryProtect 12/24V-100A	Battery Protect	1
ASS030537010	VE.Bus Smart dongle	Bluetooth Dongle	1
ASS030543020	GlobalLink 520	Communication Center	1
BAT512110710	Lithium SuperPack 12,8V/100Ah (M8) High Current	Battery	2
ASS030530230	VE.Direct Cable 3m	Cable	2
ASS030064980	RJ45 UTP Cable 3m *	Cable	1



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Pack 3		12 Volt / 3k Power	
Article number	Description	Type	Quantity
PMP122305102	MultiPlus-II 12/3000/120-50 2x120V (UL)	Inverter/charger	1
SCC110050210	SmartSolar MPPT 100/50	Solar Charger	1
SHU050150050	SmartShunt 500A/50mV	Smart Shunt	1
BPR122022000	Smart BatteryProtect 12/24V-220A	Battery Protect	1
BAT512120610	LiFePO4 Battery 12,8V/200Ah Smart	Battery	2
BMS300200200	VE.Bus BMS V2	Battery Management System	1
ORI121217040	Orion XS 12/12-50A DC-DC battery charger	DC-DC Charger	1
BPP900450100	Cerbo GX	Communication Center	1
BPP900455050	GX Touch 50	Touchscreen	1
ASS030064980	RJ45 UTP Cable 3 m	Cable	2
ASS030530230	VE.Direct Cable 3m	Cable	3
BPC120531104R	Blue Smart IP65 Charger 12/5(1) 120V NEMA 1-15P Retail	Charger	1
LYN060102000	Lynx Distributor (M8)	DC Distribution	1



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\* RJ45 UTP Cable length depends on the size of your RV and set-up.

① Part numbers subject to change. Please scan QR code for each system for up-to-date materials list and technical drawings for installation.



## Product details per pack

Pack 4		24 Volt / 3k Power	
Article number	Description	Type	Quantity
PMP242305132	MultiPlus-II 24/3000/70-50 2x120V (UL)	Inverter/charger	1
SCC115060211	SmartSolar MPPT 150/60-Tr	Solar Charger	1
SHU050150050	SmartShunt 500A/50mV	Smart Shunt	1
BPR122022000	Smart BatteryProtect 12/24V-220A	Battery Protect	1
BAT524120610	LiFePO4 Battery 25,6V/200Ah Smart-a	Battery	2
BMS300200200	VE.Bus BMS V2	Battery Management System	1
ORI122436140	Orion-Tr Smart 12/24-15A (360W) Non-isolated DC-DC charger	DC-DC Charger	2
BPP900450100	Cerbo GX	Monitoring	1
BPP900455050	GX Touch 50	Touchscreen	1
ASS030064980	RJ45 UTP Cable 3 m	Cable	2
ASS030530230	VE.Direct Cable 3m	Cable	2
ORI241240110	Orion-Tr 24/12-30A (360W) isolated DC-DC converter	DC-DC Converter	1
BPC120531104R	Blue Smart IP65 Charger 12/5(1) 120V NEMA 1-15P Retail	Charger	1
LYN060102000	Lynx Distributor (M8)	DC Distribution	1



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markets/  
recreational-vehicles](https://victtronenergy.com/markets/recreational-vehicles)

Pack 5		24 Volt / 10k Power	
Article number	Description	Type	Quantity
QUA245023110	Quattro 24/5000/120-100/100 120V VE.Bus	Inverter/charger	2
SCC115110411	SmartSolar MPPT 150/100-Tr VE.Can	Solar Charger	1
BAT524120610	LiFePO4 Battery 25,6V/200Ah Smart-a	Battery	4
LYN034170210	Lynx Smart BMS 1000 (M10)	Battery Management System	1
LYN060102010	Lynx Distributor (M10)	DC Distribution	3
ORI122436140	Orion-Tr Smart 12/24-15A (360W) Non-isolated DC-DC charger	DC-DC Charger	2
BPP900450100	Cerbo GX	Monitoring	1
BPP900455070	GX Touch 70	Touchscreen	1
BPR122022000	Smart BatteryProtect 12/24V-220A	Battery Protect	1
ASS030064980	RJ45 UTP Cable 3 m	Cable	3
ASS030064920	RJ45 UTP Cable 0,9 m	Cable	1
ORI241240110	Orion-Tr 24/12-30A (360W) isolated DC-DC converter	DC-DC Charger	1
BPC120531104R	Blue Smart IP65 Charger 12/5(1) 120V NEMA 1-15P Retail	Charger	2



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ⓘ Part numbers subject to change. Please scan QR code for each system for up-to-date materials list and technical drawings for installation.



**Adventure. Powered by know-how.**

Wherever adventure takes you, it's good to know the power of know-how is by your side.

**Energy. Anytime. Anywhere.**

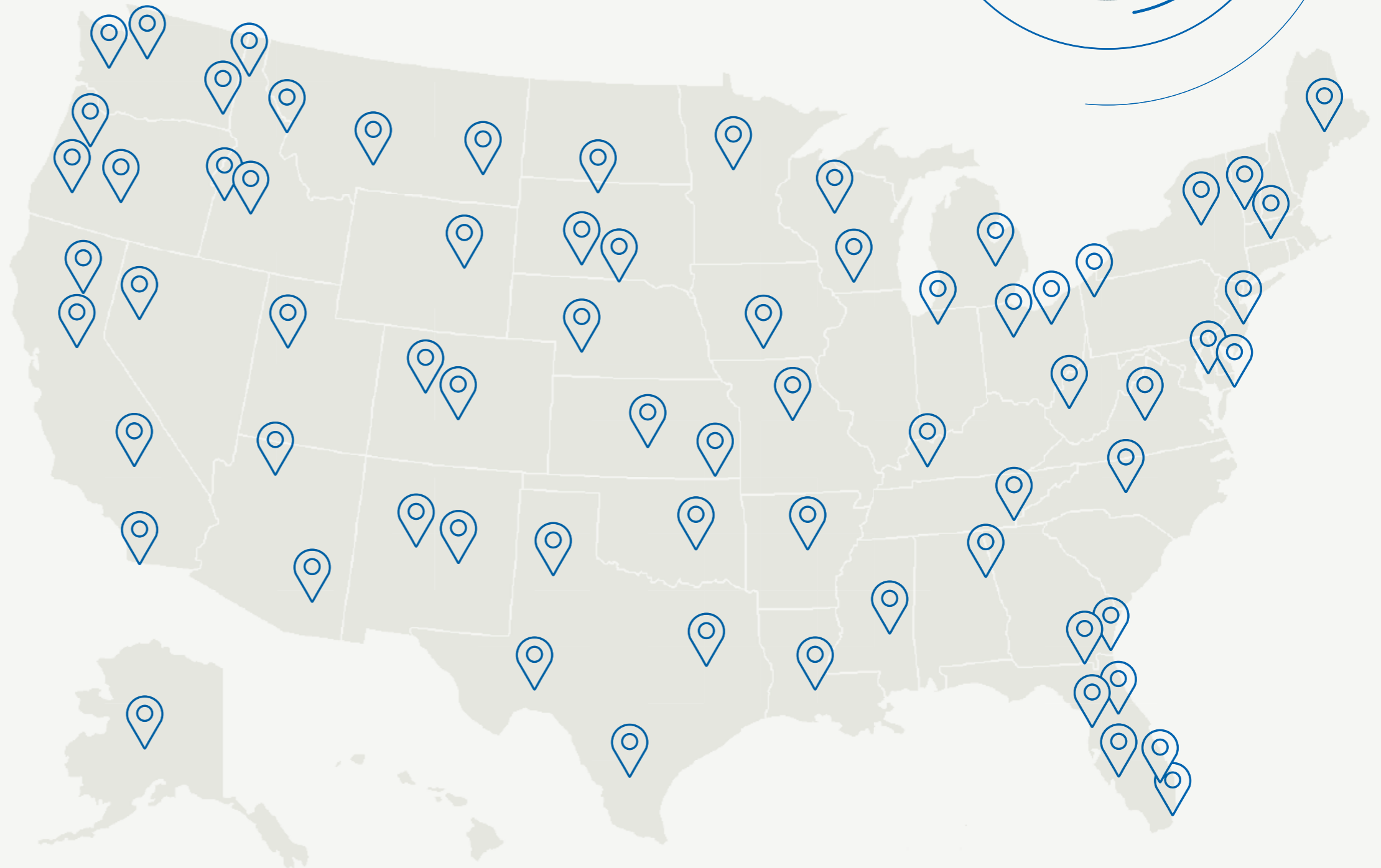
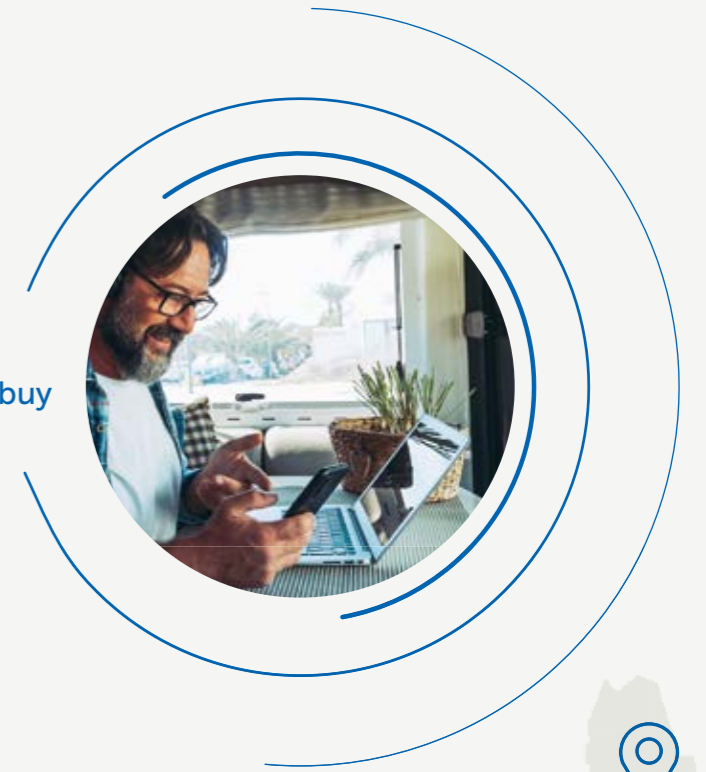


## Nationwide service and support

Thanks to our nationwide network of authorized dealers, you have a direct line to professional support and are assured of a fast and fair service and quick repairs. With the Victron Remote Monitoring platform, dealers can provide remote assistance where and when needed. With our 5 year unique warranty our customers know we've got their back should anything go wrong.

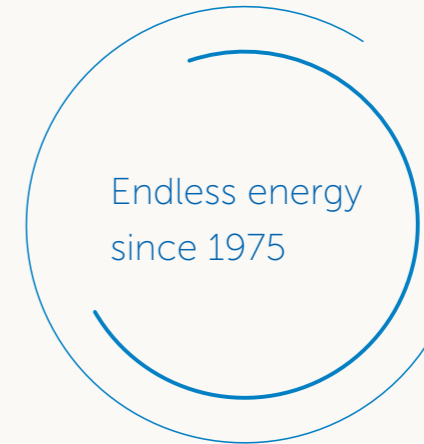
Contact your local dealer

<https://www.victronenergy.com/where-to-buy>



## Why Victron?

At Victron Energy we're as dedicated and driven to making and improving power solutions today as we were when we started in 1975. Thanks to our customer feedback loop, data and knowledge sharing, we innovate 24/7. We are powered by know-how, it keeps us going and our users going, ensuring peace of mind in off-grid use for years to come.



01



### It's not one thing that makes it all work.

Our modular, robust and connected off-grid systems have been proven to deliver unequalled reliability time and time again, even in the harshest of climates. But it's our unique combination of up-to-date hard- and software, intelligent monitoring apps, the network of highly trained authorized professionals and widespread repair centers that turns a Victron Energy system into an unbeatable system, that is powered by know-how.

02



### Reliability powers long service life cycles.

When making power supply investment decisions, calculations purely based on price can be deceptive. Their true performance and expected service life cycle are equally important. Good thing Victron Energy equipment lives up to their specifications, both in terms of performance and expected life cycle (when used as designed). Our 5 year warranty and fair and fast repair policies mean your investments are protected and under most circumstances, won't let you down.

03



### How efficiency translates into great cost-effectiveness.

With battery-based systems, efficiency is always key to providing great levels of cost-effectiveness. From our incredibly efficient Smart-Solar Charge Controllers to the way our Inverter/chargers can provide a super-efficient RV system, with a Blue Power installation you can be sure that all the details are thought through. This, combined with our reputation for extreme resilience and expected life cycles, translates into cost-effective solutions, especially when compared to 'cheaper' options.

04



### Intelligent monitoring means optimized systems.

Monitoring is crucial to fine tune and optimize energy harvest and use based on ever changing circumstances. With Victron you can experience the power of know-how right from your hand. Through our industry leading and free [Victron-Connect app](#), you always have perfect control over your system from wherever you are. With our app and [VRM portal](#) you can monitor the complete system, change settings and catch potential issues early by programming alerts and alarms.

05



### Our worldwide network of Authorized dealers is by your side.

Our global network of ±1000 highly trained distributors, installers and service partners are always on hand to help. From stock advice, installation recommendations, after-care and technical support.

With the Victron Energy team, their partners and lively community you can always be sure the power of know-how is by your side.

## System schematic drawing & requirements

Always feel free to contact your local dealer, they are happy to help and trained with the highest of know-how to translate your needs into a robust system. Find your local dealer at [www.victronenergy.com/where-to-buy](http://www.victronenergy.com/where-to-buy)



Place distributor information here

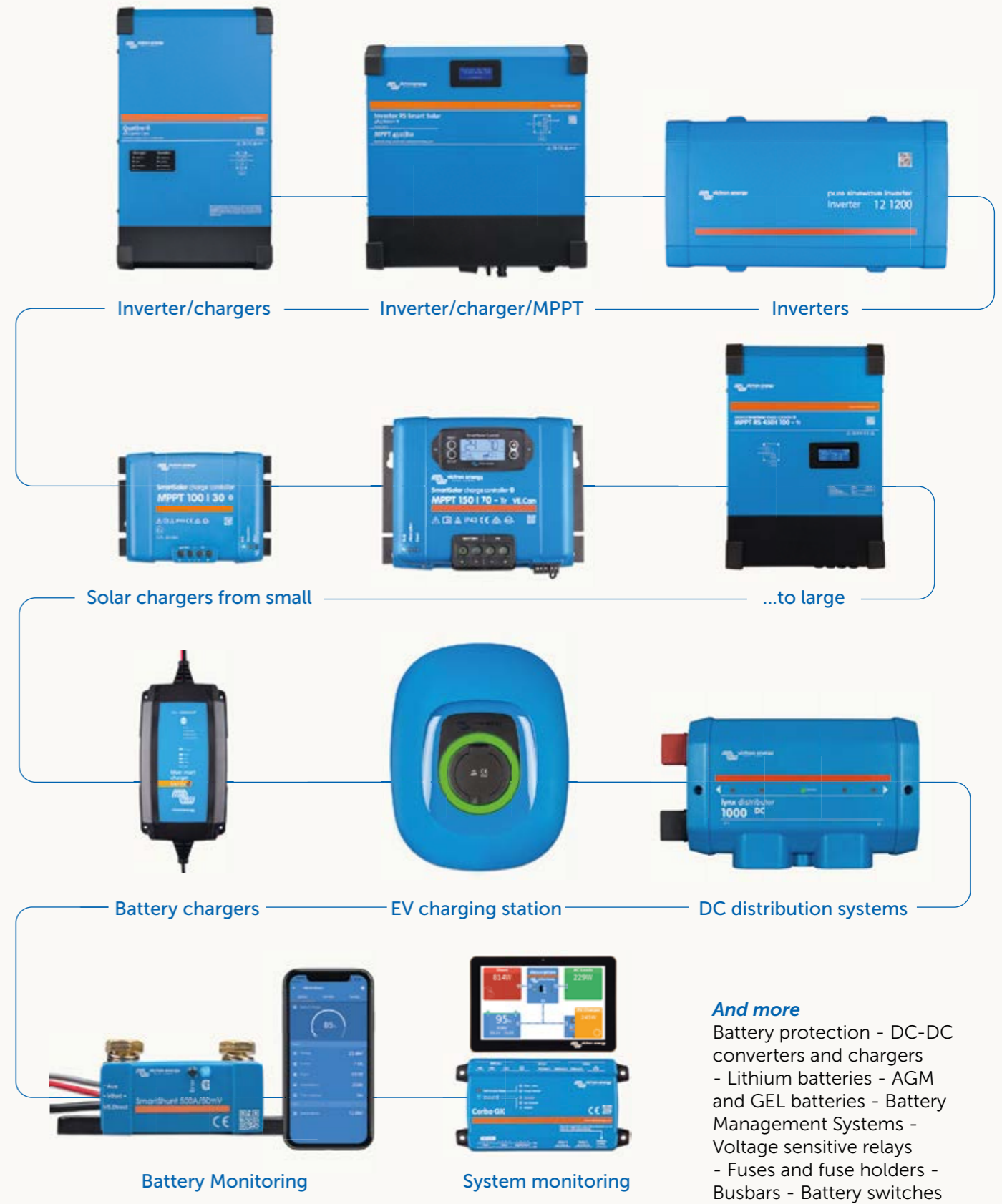


RV POWER SYSTEMS

# Flexible building blocks to solve any kind of power challenge

With Victron Energy you have one of the widest ranges of robust connected power products that keep performing, even in the harshest of climates. Our up-to-date solutions counter most off-grid issues and can be fine-tuned to the most demanding and specific needs.

Feel free to ask your local dealer for advice or check [victtronenergy.com](http://victtronenergy.com)



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 Battery protection - DC-DC converters and chargers  
 - Lithium batteries - AGM and GEL batteries - Battery Management Systems - Voltage sensitive relays  
 - Fuses and fuse holders - Busbars - Battery switches



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**Victron Energy B.V.**  
De Paal 35 • 1351JG Almere • The Netherlands  
E-mail: [sales@victronenergy.com](mailto:sales@victronenergy.com) • [www.victronenergy.com](http://www.victronenergy.com)





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