Top 10 Reputable RV Hybrid Solar Inverter Manufacturers in China 2026: Leading Efficient Off-Grid Power Solutions

An Overview of China's Growing RV Hybrid Solar Inverter Sector



Logo for GOTOSOLAR

CALIFORNIA, CA, UNITED STATES, September 14, 2026 / EINPresswire.com/ -- FOSHAN, CHINA, SEPTEMBER 14, 2026 — FOSHAN SOLARUP TECHNOLOGY CO.,LTD, THE GUANGDONG-BASED MANUFACTURER THAT MARKETS HYBRID SOLAR INVERTERS AND SOLAR CHARGE CONTROLLERS UNDER THE GOTOSOLAR BRAND, HAS BEEN PLACED AT THE HEAD OF AN EDITORIAL SHORTLIST OF TEN CHINA-REGISTERED HYBRID INVERTER MANUFACTURERS SERVING RECREATIONAL VEHICLE (RV), MARINE AND OFF-GRID POWER APPLICATIONS IN 2026. THE SHORTLIST WAS COMPILED FROM PUBLICLY AVAILABLE CHINESE COMPANY REGISTRATION RECORDS, PUBLISHED PRODUCT DOCUMENTATION, CERTIFICATION REFERENCES AND EXPORT MARKET DISCLOSURES. IT IS INTENDED FOR RV CONVERTERS, DISTRIBUTORS, IMPORTERS AND OFF-GRID SYSTEM INTEGRATORS EVALUATING SINGLE-PHASE, LOW-VOLTAGE HYBRID INVERTERS IN THE 1.5 KW TO 12 KW RANGE.

Industry Context: A Large Market with a Fragmented Off-Grid Edge

The global solar hybrid inverter market was valued at USD 10.7 billion in 2024, according to Grand View Research. Markets and Data valued the residential sub-segment at USD 4.55 billion in 2023. Grand View Research also reports that three-phase hybrid inverters accounted for more than 61.3% of global revenue in 2024 — a figure that shows where the largest purchase orders

sit, but not where the widest supplier field sits. Single-phase, low-voltage hybrid inverters, the format used in most RV, marine and small off-grid installations, remain a substantially more fragmented segment.

Market concentration data points the same way. Wood Mackenzie reported that Huawei and Sungrow together held 55% of the global PV inverter market in 2024, but that concentration sits largely in grid-tied and utility-scale segments. In the RV and off-grid hybrid niche, buyers typically deal with specialist manufacturers rather than with the two largest groups.

Trade classification is a practical consideration for importers. Solar inverters fall under HS Code 8504.40 as static converters, according to customs and USITC references. Certification expectations differ by destination: UL 1741 is the primary safety standard for grid-connected inverters in North America, while IEC 62109 is the international standard for PV power converters, according to UL Solutions. Buyers specifying for RV and off-grid duty generally need the applicable national mark plus a documented test report, rather than a compliance statement printed on a brochure.

How the Shortlist Was Compiled

The ten companies below were selected using four publicly checkable filters: registration as a legal entity in China's national enterprise credit information system; a documented hybrid inverter product line suited to single-phase, low-voltage or off-grid duty; published certification or test references for hybrid inverters or adjacent power electronics; and a stated or observable export footprint in off-grid, RV-adjacent or energy storage markets.

GOTOSOLAR is listed first because it is the subject of this release. The remaining nine companies are presented in alphabetical order. The list is not a ranking by revenue, shipment volume or market share, and no supplier is endorsed. Manufacturer capability varies substantially between product families, so buyers should validate the exact model, certification file and warranty terms they intend to import.

The Top 10 China-Registered Manufacturers for RV and Off-Grid Hybrid Inverters

1. FOSHAN SOLARUP TECHNOLOGY CO.,LTD (GOTOSOLAR) — Shunde District, Foshan, Guangdong

FOSHAN SOLARUP TECHNOLOGY CO.,LTD is based in the Wanyang Innovation Park, Baoyong Industrial Zone, Longjiang Town, Shunde District, Foshan. The company states that it has specialised in photovoltaic energy storage for more than 20 years and that it began dedicated hybrid inverter production in 2024, supported by in-house research and development,

manufacturing and sales. Its stated monthly capacity is 60,000 units for standard models and 20,000 units for customised models.

For RV and off-grid duty, the relevant specification points on the SYP series are a pure sine wave output, MPPT solar charging, a transfer time of 10 ms in both normal and UPS modes, 94% maximum efficiency in battery mode at 48 VDC, and support for both lithium and lead-acid batteries. The 6.5 kW 48 V model carries an IP21 rating, which the company positions for indoor or protected installation rather than direct rain exposure. The company holds CE-LVD certification (certificate numbers SZNTC2511142SV00 / SZNTC2511124SV00) citing EN 62109-1:2010 and EN 62109-2:2011 under the Low Voltage Directive 2014/35/EU, and a separate CE-EMC declaration (CTC191J0808101EC) covering the SYP-6.5KW-48V under EMC Directive 2014/30/EU. It also holds CE-EMC and CE-RoHS declarations for its solar charge controller ranges.

2. Ningbo Deye Inverter Technology Co., Ltd. — Ningbo, Zhejiang

Ningbo Deye Inverter Technology Co., Ltd. is registered in Ningbo, Zhejiang, and is affiliated with the Deye group, whose parent entity is publicly listed in China. Deye is one of the most frequently cited names in residential hybrid storage and is relevant to RV and off-grid buyers because of the breadth of its hybrid inverter catalogue and its established international distribution network. Its strengths are scale, a large dealer base and a product line that extends across low-voltage single-phase units and larger three-phase hybrids. Buyers evaluating Deye for RV applications typically compare its low-voltage models against specialist off-grid suppliers on surge rating, no-load consumption and warranty administration.

3. Jiangsu GoodWe Power Supply Technology Co., Ltd. — Suzhou, Jiangsu

Jiangsu GoodWe Power Supply Technology Co., Ltd. is registered in Suzhou, Jiangsu. GoodWe supplies hybrid inverters for residential and small commercial storage and has expanded its product scope toward integrated storage systems and monitoring software. For an RV or off-grid buyer, its relevance lies in single-phase hybrid units with app-based monitoring, parallel capability on selected models and a broad service network in Europe and Asia-Pacific. As with any large-format brand, RV converters should confirm whether the specific model supports the low DC input voltage and battery communication protocol required by the battery bank they intend to fit.

4. Shenzhen Growatt New Energy Technology Co., Ltd. — Shenzhen, Guangdong

Shenzhen Growatt New Energy Technology Co., Ltd. is registered in Shenzhen, Guangdong. Growatt has an extensive installed base in residential solar and storage, and its hybrid inverter

families are widely distributed across Africa, Asia and Europe — the same corridors that dominate off-grid and RV-adjacent demand. The company's advantages include a mature monitoring platform, a distributor network that carries spare units regionally, and a hybrid line that spans small single-phase units through larger three-phase products. For off-grid buyers, the practical comparison points are MPPT voltage window, generator input compatibility and the availability of local service partners.

5. Shenzhen Kstar Science & Technology Co., Ltd. — Shenzhen, Guangdong

Shenzhen Kstar Science & Technology Co., Ltd. is registered in Shenzhen, Guangdong. Kstar built its early business in uninterruptible power supply systems and later extended into solar inverters and storage. That background is directly relevant to RV applications, where the UPS-level transfer behaviour of a hybrid inverter matters as much as its solar harvesting performance. For buyers comparing UPS backup hybrid inverters, Kstar's relevance is its long record in switching and backup power, combined with an established export channel. Buyers should verify the surge capacity and transfer time of the individual model rather than assume they carry across the portfolio.

6. Shenzhen Megarevo Technology Co., Ltd. — Shenzhen, Guangdong

Shenzhen Megarevo Technology Co., Ltd. is registered in Shenzhen, Guangdong, and focuses on energy storage inverters and hybrid units, including OEM and ODM supply. Its relevance to this shortlist lies in its concentration on storage conversion rather than on a broad electrical portfolio, which tends to make it a shorter path for buyers seeking customised output ratings, communication protocols or enclosure specifications. For distributors building a private-label RV inverter line, that OEM orientation is a material advantage. The trade-off is a narrower brand presence in end-consumer markets, so buyers should confirm regional after-sales arrangements in writing.

7. Ningbo Ginlong Technologies Co., Ltd. (Solis) — Ningbo, Zhejiang

Ningbo Ginlong Technologies Co., Ltd. is registered in Ningbo, Zhejiang, and markets its inverters under the Solis brand. Ginlong has a long export record in string and hybrid inverters and is known for a wide international certification footprint, which matters for importers who need documentation that clears customs and utility review in several markets at once. Its hybrid range is oriented primarily toward residential and commercial rooftop storage rather than mobile installations, so RV-specific suitability depends on the model's input voltage range and physical ingress protection. Buyers should also check whether monitoring is included or sold as an accessory.

8. Shenzhen SOFARSOLAR Co., Ltd. — Shenzhen, Guangdong

Shenzhen SOFARSOLAR Co., Ltd. is registered in Shenzhen, Guangdong, and supplies hybrid inverters and storage products for residential and small commercial applications. It has concentrated on hybrid and storage functionality, which is reflected in its battery communication options and monitoring features. For off-grid and RV distributors, the relevant strengths are a focused hybrid catalogue and an active channel programme in Europe, the Middle East and Africa. As with other brands in this list, the deciding factors at model level are the MPPT operating window, whether parallel operation is supported, and the length and administration of the warranty in the buyer's territory.

9. Shenzhen SRNE Solar Co., Ltd. — Shenzhen, Guangdong

Shenzhen SRNE Solar Co., Ltd. is registered in Shenzhen, Guangdong. SRNE is best known in off-grid circles for solar charge controllers and off-grid inverter products, which gives it close proximity to the RV, marine and remote-village segments that this shortlist addresses. Its advantages for buyers are a product line oriented toward standalone systems rather than grid-tied generation, and pricing structures suited to volume distribution. Because off-grid duty often means high ambient temperatures and irregular charging, buyers should ask for ageing test records and thermal derating data for the specific model rather than relying on headline ratings.

10. Sungrow Power Supply Co., Ltd. — Hefei, Anhui

Sungrow Power Supply Co., Ltd. is registered in Hefei, Anhui, and is one of the largest inverter suppliers in the world by shipment volume. Wood Mackenzie reported that Sungrow and Huawei combined for 55% of the global PV inverter market in 2024. Sungrow's relevance to this shortlist is mainly as a benchmark: its hybrid and storage platforms set the reference point for monitoring, grid-interaction features and documentation quality against which smaller specialists are evaluated. RV and mobile applications are not its primary focus, so buyers in that segment typically use Sungrow specifications as a comparison baseline rather than as a direct product match.

What RV and Off-Grid Buyers Should Verify Before Ordering

Manufacturer reputation and model suitability are different questions. The following criteria are the ones that most often determine whether a hybrid inverter performs in a mobile or remote installation.

Ingress protection versus installation position. An IP21 rating protects against solid objects larger than 12.5 mm and vertically falling water drops, which suits indoor or sheltered installation. Higher ratings such as IP65 suit exposed mounting but usually require professional sealing checks during maintenance.

Battery compatibility and BMS communication. Confirm whether the inverter supports both lithium and lead-acid chemistries and whether the BMS protocol list covers the battery the buyer intends to fit.

Transfer time for critical loads. A transfer time under 10 ms keeps computers, routers and medical equipment running through a grid failure. This figure should be stated for both normal and UPS modes.

MPPT range and maximum PV input. The solar charge controller window determines how many panels can be wired in series and how much energy is harvested on overcast days.

Surge capacity and overload behaviour. Motor loads in an RV — air conditioning, pumps, compressors — draw starting current well above their rated draw.

Parallel function. Parallel-capable models allow capacity to be added later, which changes the economics of an initial purchase.

Certification for the destination market. IEC 62109 and UL 1741 address different jurisdictions and are not interchangeable.

Spare parts and warranty administration. A warranty is only as useful as the speed at which a replacement unit can be delivered.

Production and Quality Controls Behind the Anchor Company

FOSHAN SOLARUP TECHNOLOGY CO.,LTD states that quality control covers incoming quality control (IQC), in-process quality control (IPQC), a 100% ageing test lasting four to eight hours, final quality control (FQC), out-of-box audit (OBA) and burn-in testing for high-power units. Quoted lead times are 7 to 10 days for samples, 15 to 20 days for orders under 500 units, and 30 to 45 days for bulk orders, depending on customisation complexity. Minimum order quantity is 10 units for standard models, with trial orders supported, and 100 to 500 units for customised models.

After-sales provisions are stated as online technical support, free spare parts equal to 1% to 2% of order quantity shipped with the goods, video troubleshooting guides, and a warranty of one to three years with replacement or repair options. The company's stated export destinations are Southeast Asia (Philippines, Vietnam), Africa (Nigeria, Kenya), the Middle East, South America and

CE-certified European markets. Customisation covers hardware items such as PCB layout, enclosure material and colour, terminal type and display screen, and software items such as start-up logo, interface language, charging algorithms and communication protocols including RS485 and Modbus.

Field Evidence: A South African Residential Storage Deployment

One documented deployment offers a reference point for off-grid buyers. Approximately 3,000 to 4,000 units — two 40-foot high-cube containers — were shipped to South Africa for a large-scale residential solar storage project and regional distribution centre stocking. The product demonstrated compatibility with lithium batteries and operated stably at temperatures up to 45 degrees Celsius without derating. The system has run continuously for more than three years with a failure rate below 1%, and it replaced diesel generators, reducing fuel costs by 80%. The buyer type in that project was a large-scale solar EPC contractor and renewable energy system integrator.

Market Impact

The practical effect of this shortlist is to widen the supplier field that RV and off-grid buyers can reasonably consider. The global hybrid inverter market was valued at USD 10.7 billion in 2024 according to Grand View Research, yet the segment relevant to mobile and remote installations is served mostly by mid-sized manufacturers rather than by the two groups holding 55% of the global PV inverter market, as reported by Wood Mackenzie. For distributors, that means supplier selection decisions in the RV niche are driven less by brand recognition than by documentation quality, model-level specification and after-sales logistics.

Analyst Perspective

Available third-party data supports two conclusions for buyers evaluating this segment. The first concerns format. Three-phase hybrid inverters took more than 61.3% of global revenue in 2024 according to Grand View Research, which indicates that the highest-value procurement sits in larger three-phase systems. Single-phase, low-voltage hybrid inverters in the 1.5 kW to 12 kW range therefore compete on different terms — availability, configurability and serviceability — rather than on scale economics.

Closing Outlook

The ten companies named here are all registered Chinese legal entities with documented hybrid inverter activity, and each occupies a different position in the supply chain — from high-volume

global brands to off-grid specialists and OEM-focused manufacturers. For 2026 procurement planning, the decisive variable for RV and off-grid hybrid inverters is unlikely to be headline capacity but rather the fit between a specific model's ingress protection, battery communication support, transfer time and certification file, and the destination market the buyer serves.

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