MORE POWER TO YOU

LARGEST SELECTION OF:

POWER INVERTERS

LONG LASTING BATTERIES

SOLAR KITS

CABLES

FUSES & ACCESSORIES

AIMS Power™

www.aimscorp.net | 775.359.6703

WHAT DO YOU WANT TO POWER?

APPLIANCES | TOOLS | CONNECTIVITY

PURE SINE VS. MODIFIED SINE: WHICH IS RIGHT FOR YOU?

PURE SINE WAVE INVERTERS

Produce clean, utility grade power that closely matches electricity from the grid. Best for sensitive electronics, medical equipment, variable speed motors, appliances with dispay, and LEDs.

MODIFIED SINE WAVE INVERTERS

A cost effective solution for basic power needs. Ideal for non-sensitive loads, non-variable speed motors, simple pumps, and resistive loads.

DO YOU NEED HIGH OR LOW FREQUENCY?

CHOOSE A HIGH FREQUENCY INVERTER IF YOU ARE POWERING:

- RV appliances - light duty
- Electronics and chargers
- TVs and entertainment systems
- Coffee makers
- Small kitchen appliances
- General off-grid power needs

Benefits include lower cost, lighter weight, easier installation, and higher power density. High frequency designs are commonly chosen when space and weight matter.

CHOOSE A LOW FREQUENCY INVERTER IF YOU ARE POWERING:

- Well pumps
- Air compressors
- Refrigerators and freezers
- Power tools
- Air conditioners
- Multiple motor-driven appliances

The large transformer design allows low frequency inverters to handle high startup currents and heavy surge loads that can challenge many high frequency units. They are often preferred for demanding off-grid, backup power, and industrial applications.

MORE POWER TO YOU

AIMS Power inverters transform battery energy into dependable household power, helping you run appliances, electronics, tools, medical devices, and other essential equipment when traditional power sources aren't available.

Engineered with rugged industrial grade quality for long lasting performance, our inverters are trusted in RVs, off-grid systems, backup power installations, mobile businesses, and demanding commercial applications.

We offer the largest selection on the market, with voltages available in 12, 24, 36, and 48 volts DC, and power ranging from 100 watts to 12,000 watts.

FEATURES:

- High & low voltage protection
- Short circuit safety
- Over & under temperature shutdown
- Overload protection
- Auto reset on most faults
- Hardwire AC terminal (select models)
- Optimal cooling fans
- Internal fuse protected
- LED indicators
- Digital meter for monitoring (select models)
- Optional remote switch

WE HAVE THE EXACT POWER INVERTER FOR YOU!

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INVERTERS

HIGH FREQUENCY MODIFIED SINE

MODIFIED POWER INVERTERS	MODEL #	VOLTAGE
12 VOLT INVERTERS		
100 Watt with USB Port	PWRINV100W	12 VDC 120 VAC 60Hz
120 Watt	PWRCUP120	12 VDC 120 VAC 60Hz
150 Watt with 2 USB Ports	PWRINV150W	12 VDC 120 VAC 60Hz
250 Watt with USB Port	PWRINV250W	12 VDC 120 VAC 60Hz
400 Watt	PWRINV400W	12 VDC 120 VAC 60Hz
800 Watt	PWRINV800W	12 VDC 120 VAC 60Hz
1000 Watt - Economical (no remote port)	PWRB1000	12 VDC 120 VAC 60Hz
1250 Watt - Economical (no remote port)	PWRB1250	12 VDC 120 VAC 60Hz
1250 Watt	PWRINV1250W	12 VDC 120 VAC 60Hz
1500 Watt Inverter Charger + Transfer Switch	PWRIC1500W	12VDC 120 VAC 60Hz
2000 Watt ETL Listed to UL458	PWRINV200012120W	12 VDC 120 VAC 60Hz
2500 Watt	PWRINV250012W	12 VDC 120 VAC 60Hz
2500 Watt - Economical	PWRB2500	12 VDC 120 VAC 60Hz
3000 Watt ETL Listed to UL458	PWRINV300012120W	12 VDC 120 VAC 60Hz
3600 Watt ETL Listed to UL458	PWRINV360012120W	12 VDC 120 VAC 60Hz
5000 Watt	PWRINV500012W	12 VDC 120 VAC 60Hz
5000 Watt 240 VAC	PWRINV5K24012W	12 VDC 240 VAC 60Hz
8000 Watt	PWRINV8KW12V	12 VDC 120 VAC 60Hz
10000 Watt	PWRINV10KW12V	12 VDC 120 VAC 60Hz
24 VOLT INVERTERS		
2500 Watt 24 Volt	PWRINV250024W	24 VDC 120 VAC 60Hz
5000 Watt 24 Volt	PWRINV500024W	24 VDC 120 VAC 60Hz
7000 Watt 24 Volt Industrial Grade	PWRIG700024024	24 VDC 240 VAC 50/60Hz
48 VOLT INVERTERS		
5000 Watt 48 Volt	PWRINV500048W	48 VDC 120 VAC 60Hz
7000 Watt 48 Volt Industrial Grade	PWRIG700024048	48 VDC 240 VAC 50/60Hz

MOST POPULAR!

MOST POPULAR!

REMOTE SWITCH

Add a convenient flush mount remote switch for quick and easy control of your inverter. Compatible with the AIMS High Frequency Inverters. *(Not compatible with PWRIGxxx inverters)*

Part #: REMOTEHF

INVERTERS

HIGH FREQUENCY PURE SINE

PURE SINE INVERTERS	MODEL #	VOLTAGE
12 VOLT INVERTERS		
180 Watt USB Port	PWRI18012S	12 VDC 120 VAC 60Hz
300 Watt USB Port	PWRI30012S	12 VDC 120 VAC 60Hz
600 Watt USB Port ETL Listed to UL458	PWRI60012120S	12 VDC 120 VAC 60Hz
1000 Watt USB Port ETL Listed to UL458	PWRI100012120S	12 VDC 120 VAC 60Hz
1200 Watt Transfer Switch Hardwire ETL Listed to UL458	PWRIX120012SUL	12 VDC 120 VAC 60Hz
1500 Watt USB Port ETL Listed to UL458	PWRI150012120S	12 VDC 120 VAC 60Hz
2000 Watt USB Port ETL Listed to UL458	PWRI200012120S	12 VDC 120 VAC 60Hz
2000 Watt Industrial Grade	PWRIG200012120S	12 VDC 120 VAC 60Hz
2000 Watt Transfer Switch Hardwire ETL Listed to UL458	PWRIX2000SUL	12 VDC 120 VAC 60Hz
3000 Watt USB Port ETL Listed to UL458	PWRI300012120SUL	12 VDC 120 VAC 60Hz
3000 Watt Industrial Grade	PWRIG300012120S	12 VDC 120 VAC 50/60Hz
5000 Watt Industrial Grade	PWRIG500012120S	12 VDC 120 VAC 50/60Hz
24 VOLT INVERTERS		
300 Watt 24V USB Port	PWRI30024S	24 VDC 120 VAC 60Hz
1500 Watt 24V Pure Sine Power Inverter w/ USB & Remote Port	PWRI150024S	24 VDC 120 VAC 60Hz
3000 Watt 24V Industrial Grade	PWRIG300024120S	24 VDC 120 VAC 50/60Hz
5000 Watt 24V Industrial Grade	PWRIG500024120S	24 VDC 120 VAC 50/60Hz
48 VOLT INVERTERS		
1500 Watt 48V	PWRI150048S	48 VDC 120 VAC 60Hz
5000 Watt 48V Industrial Grade	PWRIG500048120S	48 VDC 120 VAC 60Hz

MOST POPULAR!

MOST POPULAR!

MOST POPULAR!

REMOTE SWITCH

Add a convenient flush mount remote switch for quick and easy control of your inverter. Compatible with the AIMS High Frequency Inverters.

Part #: REMOTEHF

Not compatible with PWRIG

INVERTERS

HIGH FREQUENCY INVERTERS CERTIFIED TO UL|CSA STANDARDS

We offer power inverters certified to UL 458, UL 1741, and CSA 22.2 standards, meeting regulatory requirements for many industries and helping protect employees, customers, and equipment when safety matters most.

INVERTERS LISTED TO UL & CSA STANDARDS	MODEL #	VOLTAGE	
600 Watt Pure Sine Power Inverter w/ USB & Remote Port	PWRI60012120S	12 VDC 120 VAC 60Hz	
1000 Watt Pure Sine Inverter Charger	PIC100012120S	12 VDC 120 VAC 60Hz	
1000 Watt Pure Sine Power Inverter w/ USB & Remote Port	PWRI100012120S	12 VDC 120 VAC 60Hz	
1200 Watt Pure Sine With Transfer Switch - Hardwire	PWRIX120012SUL	12 VDC 120 VAC 60Hz	
2000 Watt Pure Sine With Transfer Switch - Hardwire	PWRIX200012SUL	12 VDC 120 VAC 60Hz	
1500 Watt Pure Sine Power Inverter w/ USB & Remote Port	PWRI150012120S	12 VDC 120 VAC 60Hz	
2000 Watt Pure Sine Inverter w/ USB & Remote Port	PWRI200012120S	12 VDC 120 VAC 60Hz	**MOST POPULAR!**
2000 Watt ETL Listed to UL458	PWRINV200012120W	12 VDC 120 VAC 60Hz	
3000 Watt Pure Sine Inverter w/ USB & Remote Port	PWRI300012120S	12 VDC 120 VAC 60Hz	
3000 Watt ETL Listed to UL458	PWRINV300012120W	12 VDC 120 VAC 60Hz	
3600 Watt ETL Listed to UL458	PWRINV360012120W	12 VDC 120 VAC 60Hz	

LOW FREQUENCY PURE SINE INVERTERS CERTIFIED TO UL/CSA STANDARDS

Our low frequency, ETL listed pure sine inverters can handle higher surge requirements than high frequency models, providing an efficient, smooth output wave for all devices. With a 3X surge capacity for up to 20 seconds, these heavy duty low frequency inverters are ideal for all applications, especially those needing extra surge capacity.

PURE SINE INVERTERS LOW FREQUENCY	MODEL #	VOLTAGE	
600 Watt Pure Sine Power Low Frequency	PILF6W12V120V	12 VDC 120 VAC 60Hz	
1000 Watt Pure Sine Power Low Frequency	PILF10W12V120V	12 VDC 120 VAC 60Hz	
1500 Watt Pure Sine Power Low Frequency	PILF15W12V120V	12 VDC 120 VAC 60Hz	
2000 Watt Pure Sine Power Low Frequency	PILF20W12V120V	12 VDC 120 VAC 60Hz	**MOST POPULAR!**
2400 Watt Pure Sine Power Low Frequency	PILF24W12V120V	12 VDC 120 VAC 60Hz	
3000 Watt Pure Sine Power Low Frequency	PILF30W12V120V	12 VDC 120 VAC 60Hz	**MOST POPULAR!**
3000 Watt 120/240 Pure Sine Power Low Frequency	PILF30W12V240VS	12 VDC 120/240 VAC 60Hz	
4000 Watt Pure Sine Power Low Frequency	PILF40W12V120V	12 VDC 120 VAC 60Hz	

APPLIANCES

TOOLS

CONNECTIVITY

INVERTERS

LOW FREQUENCY PURE SINE INVERTER CHARGERS

Smooth Pure Sine Wave power with automatic transfer switch, battery charging, and AC power bypass when connected to shore or generator. With 3X surge capacity for up to 20 seconds and advanced features, these inverter chargers are perfect for on-the-go battery charging or using shore/generator power as an alternative.

PURE SINE INVERTER CHARGERS W/TRANSFER SWITCH	MODEL #	VOLTAGE	
1000 Watt Pure Sine Inverter Charger (economical)	PIC100012120S	12 VDC 120 VAC 60Hz	
1000 Watt Pure Sine Inverter Charger	PICOGLF10W12V120VR	12 VDC 120 VAC 50/60Hz	
1500 Watt Pure Sine Inverter Charger	PICOGLF15W12V120VR	12 VDC 120 VAC 50/60Hz	
2000 Watt Pure Sine Inverter Charger	PICOGLF20W12V120VR	12 VDC 120 VAC 50/60Hz	
2500 Watt Pure Sine Inverter Charger (economical)	PICOGLF25W12V120AL	12 VDC 120 VAC 60Hz	
3000 Watt Pure Sine Inverter Charger	PICOGLF30W12V120VR	12 VDC 120 VAC 50/60Hz	
4000 Watt Pure Sine Inverter Charger	PICOGLF40W12V120V	12 VDC 120 VAC 50/60Hz	**MOST POPULAR!**
4000 Watt Pure Sine Inverter Charger 120/240 VAC	PICOGLF40W12V240VS	xs12 VDC 120/240 VAC 50/60Hz	
4000 Watt Pure Sine Inverter Charger 120/240 VAC Output 120 VAC Input	PICOGLF4012120240VS	12 VDC 120/240 VAC 50/60Hz 120 VDC Input	
2000 Watt 24V Pure Sine Inverter Charger	PICOGLF20W24V120VR	24 VDC 120 VAC 50/60Hz	
3000 Watt 24V Pure Sine Inverter Charger	PICOGLF30W24V120VR	24 VDC 120 VAC 50/60Hz	
4000 Watt 24V Pure Sine Inverter Charger	PICOGLF40W24V120V	24 VDC 120 VAC 50/60Hz	
6000 Watt 24V Pure Sine Inverter Charger 120/240 VAC	PICOGLF60W24V240VS	24 VDC 120/240 VAC 50/60Hz	

PURE SINE INVERTER CHARGERS W/TRANSFER SWITCH & BATTERY CHARGER LISTED TO UL & CSA STANDARDS	MODEL #	VOLTAGE	
600 Watt Pure Sine Inverter Charger	PICOGLF6W12V120VETL	12 VDC 120 VAC 50/60Hz	
1000 Watt Pure Sine Inverter Charger	PICOGLF10W12V120V	12 VDC 120 VAC 50/60Hz	
1500 Watt Pure Sine Inverter Charger	PICOGLF15W12V120V	12 VDC 120 VAC 50/60Hz	
2000 Watt Pure Sine Inverter Charger	PICOGLF20W12V120V	12 VDC 120 VAC 50/60Hz	**MOST POPULAR!**
3000 Watt Pure Sine Inverter Charger	PICOGLF30W12V120V	12 VDC 120 VAC 50/60Hz	**MOST POPULAR!**
4000 Watt Pure Sine Inverter Charger	PICOGLF4024120UL	24 VDC 120 VAC 50/60Hz	
3000 Watt Pure Sine Inverter Charger	PICOGLF3K12050BY	12 VDC 120 VAC with 50A Transfer Switch 50/60Hz	**MOST POPULAR!**
4000 Watt Pure Sine Inverter Charger	PICOGLF4024120SUL	24 VDC 120 VAC 50/60Hz	
4000 Watt Pure Sine Inverter Charger 120/240 VAC	PICOGLF4024240SUL	24 VDC 120/240 VAC 50/60Hz	
6000 Watt Pure Sine Inverter Charger	PICOGLF6024120UL	24 VDC 120 VAC 50/60Hz	
6000 Watt Pure Sine Inverter Charger 120/240 VAC	PICOGLF6024240SUL	24 VDC 120/240 VAC 50/60Hz	

REMOTE SWITCH

Quickly view the status of your low frequency inverter with the AIMS Power LCD remote panel. Monitors:

- Battery voltage
- AC input voltage
- AC output voltage
- Frequency monitoring
- Load percentage monitoring

Part #: REMOTELF

Compatible with AIMS Power Inverters (LCD Port)

BLUETOOTH MONITOR

Conveniently check the status of your Low Frequency Inverter using a Smartphone or on your PC. Installation is plug-n-play. Voltage, Temperature, Current.

Part #: BT-AIMS-PROO

REMOTE SWITCH

Don't need a full display? Our on/off remote switch with LED indicators is a convenient solution to provide the information you need. Includes LED indicators for shore power, inverter power and faults. *(not compatible ETL listed inverters)*

Part #: REMOTELFLED

Compatible with AIMS Power Inverter Chargers (LED Port)

SAFETY FIRST!

ENSURE PROPER CABLE & FUSE SIZES

CABLES

MAXIMIZE YOUR POWER SYSTEM'S EFFICIENCY & SAFETY WITH AIMS POWER CABLES

To ensure your power system operates at peak performance, it's crucial to have high-quality cables that connect everything seamlessly. AIMS Power offers an extensive selection of UL listed cables designed to carry power safely for your inverters and batteries, without power loss.

CABLES	Max Amps	Outer Diameter	Lug Size
10 AWG (PV)	49 Amps	0.252"	1/4"
8 AWG	87 Amps	0.314"	3/8"
6 AWG	117 Amps	0.338"	3/8"
4 AWG	155 Amps	0.45"	3/8"
1 / 0 AWG	284 Amps	0.61"	7/16"
4 / 0 AWG	445 Amps	0.78"	5/8"
*Custom lengths available			

EXTRA PROTECTION RIGHT AT THE POWER SOURCE TO PREVENT SHORT CIRCUITS

FUSES

ESSENTIAL PROTECTION FOR YOUR POWER SYSTEM WITH INLINE FUSES

Ensure the safety and longevity of your power system with AIMS Power's comprehensive collection of inline fuses. Designed specifically for inverter and battery setups, these fuses are a simple yet effective solution to protect your batteries from overheating and other fire hazards.

ANL Fuse Size - Battery to Inverter & Battery to Charge Controller (AMPS)	Part #
50A Fuse & Holder	ANL50KIT
80A Fuse & Holder	ANL80KIT
100A Fuse & Holder	ANL100KIT
150A Fuse & Holder	ANL150KIT
200A Fuse & Holder	ANL200KIT
300A Fuse & Holder	ANL300KIT
500A Fuse & Holder	ANL500KIT
MC4 Solar Inline Fuse Size - Panel to Solar Charge Controller (AMPS)	
15A MC4 Male & Female	PVF15
30A MC4 Male & Female	PVF30

RELIABLE HIGH-QUALITY LONG LASTING BATTERIES

RELIABLE POWER WHEN YOU NEED IT MOST

When reliability matters most, our deep-cycle batteries deliver. Built to endure the toughest conditions, they provide long-lasting, consistent power. Whether you're off-roading in your RV, on a remote jobsite in a commerical truck, or staying prepared with a solar backup system, we have a battery for you.

Choose from our high-performance lineup in **12V, 24V, and 48V system**s, available in **AGM and advanced lithium technologies**. Whatever your setup, we've got the power solution to keep you up and running.

PREMIUM BATTERY POWER YOU CAN COUNT ON EVERYTIME

BATTERIES

DEEP CYCLE BATTERIES	MODEL #
AGM 6V 225 AMP Golf Cart	AGM6V225G
AGM 12V 100 AMP Group 27	AGM12V100A
AGM 12V 200 AMP Group 4D	AGM12V200A
Lithium Iron Phosphate LiFePO4 12V 104A	LFP12V104A
Lithium Iron Phosphate LiFePO4 12V 135A (Compatible w/RV-C)	LFP12V135A
Lithium Iron Phosphate LiFePO4 12V 300A	LFP12V300A
Lithium Iron Phosphate LiFePO4 24V 400A	LFP24V400A
Lithium Iron Phosphate LiFePO4 48V 200A	LFP48V200A
Golf Cart with charger and wiring kit LiFePO4 48V 105A	KIT-GLF105
Golf Cart with charger and wiring kit LiFePO4 48V 150A	KIT-GLF150
Golf Cart with charger and wiring kit LiFePO4 48V 200A	KIT-GLF200

MOST POPULAR!

AIMS Power
INDUSTRY LEADING
WARRANTY

BATTERIES

AGM BATTERIES

A proven, budget-friendly solution for high-discharge applications. AGM batteries are ideal for battery systems where startup power and rugged reliability are essential.

AGM FEATURES

- Heavy duty compared to other AGM batteries - 20% more cycles
- Mount in any orientation
- Vibration-resistant and cost-effective
- Trusted, time-tested technology
- Thick plates within the battery limit fluid expansion during freezing
- Maintenance-free operation
- Low self-discharge
- 5 Year manufacturer defect warranty

LITHIUM BATTERIES

Long-lasting, safe and lightweight lithium batteries deliver full capacity with no memory effect, making them perfect for solar storage and mobile systems where energy density and longevity matter most.

LITHIUM FEATURES

- Extremely high number of charge/discharge cycles >5000
- **Lifetime** manufacturer defect warranty and tech support (<3500 cycles)
- Built-in heater
- Battery wake-up
- RV-C (135A only)
- Faster recharge compared to other technologies
- Consistent power output, no memory problems
- Stable output voltage
- Able to withstand over-charge/over-discharge without damage to the battery
- Bluetooth monitoring
- Advanced battery management systems (BMS) for safety and performance
- IP65 (excluding 24V & 48V)

GET POWER
WHEREVER YOU NEED IT

LET US DO THE WORK FOR YOU!

We have a solar kit for almost every application. If you are looking for a complete off grid or on-the-go solar power solution, let us design it for you. **Finding the right equipment is key.**

SOLAR EXPERTS: WE OFFER EXCELLENT WARRANTIES, FREE TECHNICAL SUPPORT AND OUR CUSTOMER SERVICE IS THE BEST IN THE BUSINESS.

SOLAR KITS

Whether you're hitting the open road in your RV or relaxing at a remote cabin, solar offers an incredible array of benefits. Our solar kits can charge your essential devices, like laptops, smartphones, and other gadgets that keep your adventures connected. But they don't stop there! Solar panels can also power your refrigerator, lights, and even air conditioning, ensuring comfort and convenience wherever you travel.

For full-time RVers or a quick boondocking trip solar provides the freedom to roam without being tied to traditional power sources.

SOLAR SIZING TOOL

INPUT YOUR POWER NEEDS AND GET RECOMMENDATIONS

- Freedom to travel and stay powered
- Quiet alternative to generators
- Extends battery life by 50%
- Reliable power while on the go
- Reduces need for generator fuel
- Renewable power source

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FRONTIER CLASS

EVOLVE YOUR ENERGY

The Expansion Solution

The **Frontier Class** is designed for users who already have part of a solar setup and want to improve performance without rebuilding their entire system. These targeted expansion kits make it easy to add more solar charging, battery support, or AC power using carefully matched components that integrate seamlessly with existing equipment.

Whether you need to maintain batteries during storage, increase daily solar harvest, or upgrade to a more capable inverter, **Frontier** kits provide practical solutions for real world power needs. Every kit includes a solar charge controller to safely manage charging performance and protect your system.

Need simple battery maintenance?

The **Lightning Bug** is ideal for RVs, trailers, boats, or equipment that need reliable trickle charging to maintain battery health during storage.

Need more usable AC power?

The **Mantis** is designed for users whose current setup lacks inverter capacity. With added solar charging and a 2000W inverter, it upgrades your system to handle larger appliances and tools.

PART NUMBER	FCMANTIS	FCLBUG	FCHORNET	FCWSPIDER	FCSCORPION	FCTARANTULA
Panel Type	Rigid	Rigid	Flexible	Rigid	Rigid	Flexible
Total Solar Watts	190	50	130	190	200	260
Array Sq Ft	11.25	4.13	7.33	11.25	11	14.67
Charge Controller Amps	30A/PWM	11A/PWM	20A/PWM	30A/PWM	30A/PWM	30A/PWM
Panel Expansion Option	Maxed Out	1QTY PV50MONO	Maxed Out	Maxed Out	Maxed Out	Maxed Out
Total kWh Battery	No battery included; check other kits for battery options.	No battery included; check other kits for battery options.	No battery included; check other kits for battery options.	No battery included; check other kits for battery options.	1.2kWh - Qty 1 AGM12V100A	No battery included; check other kits for battery options.
Inverter	PICOGLF20W12120V - Inverter Charger w/ transfer 2000W / 6000W Surge 12 VDC to 120 VAC	No inverter included; check other kits for inverter options.	No inverter included; check other kits for inverter options.	No inverter included; check other kits for inverter options.	No inverter included; check other kits for inverter options.	No inverter included; check other kits for inverter options.

EXPEDITION CLASS

POWER ON THE MOVE

Complete Mobile Power for Life Off the Grid

The **Expedition Class** delivers complete solar power systems designed specifically for RVs, vans, buses, and mobile lifestyles. Each kit combines solar panels, battery storage, charge control, and inverter power into a ready-to-deploy solution for dependable energy on the move.

From lightweight systems for charging electronics and Starlink to high capacity setups capable of running major appliances, **Expedition** kits are built for users who want reliable off-grid power without depending on shore power.

Need lightweight essentials power?

The **Starling** is optimized for Starlink, laptops, phones, lighting, and small electronics, perfect for mobile connectivity and remote work.

Need serious RV power?

The **Bull** delivers high capacity off-grid performance with 760W of solar and a 3000W inverter, making it ideal for larger RV appliances and extended stays off-grid.

PART NUMBER	ECSTARLING	ECBULL	ECLYNX	ECRAZORBACK	ECBADGER	ECBIGHORN	ECARMADILLO
Panel Type	Rigid	Rigid	Rigid	Flexible	Rigid	Rigid	Rigid
Total Solar Watts	190	760	100	130	120	200	760
Array Sq Ft	11.25	46.13	5.5	7.33	7.69	11	45
Panel Expansion Option	Maxed Out	Maxed Out	Maxed Out	Maxed Out	1QTY PV120MONO	Maxed Out	4QTY PV190MONO
Total kWh Battery	1.2	4.8	1.2	1.2	2.7	4.8	5.12
Battery Part #	AGM12V100A	AGM12V200A	AGM12V100A	AGM12V100A	AGM6V225A	AGM12V200A	Built-in All in One
# of Batteries	1	2	1	1	2	2	1
Battery Type	AGM	AGM	AGM	AGM	AGM	AGM	LiFePO4
Estimated Runtime Common Use	24 Hours @ 50 Watts	10 Hours @ 480 Watts	8 Hours @ 150 Watts	8 Hours @ 150 Watts	9 Hours @ 300 Watts	10 Hours @ 480 Watts	9 Hours @ 550 Watts
Inverter Watts Continuous Surge	300/600	3000/9000	1000/2000	600/1200	2000/4000	2000/6000	3000/9000
Inverter	PWRI300125	PICOGL3K12050BY	PWRI1000121205	PWRI600121205	PWRI2000121205	PILF20W12V120V	AIO-12V
Transfer Switch	No	Yes - 50A	No	No	No	No	Yes
AC Charger	No	Yes	No	No	No	No	Yes
AC Output (V)	120	120	120	120	120	120	120

SENTINEL CLASS
THE RESIDENTIAL GUARDIAN

Reliable Backup Power When the Grid Goes Down

The **Sentinel Class** is built for users who want reliable backup power without the complexity of a permanent generator. These all-in-one solar kits provide battery storage, inverter power, and solar charging to keep lights, tools, appliances, and essential equipment running in garages, sheds, workshops, and other outbuildings during outages. Ideal for year-round backup if grid fails.

PART NUMBER	SCPEAVINE	SCSAWTOOTH	SCBLACKBURN	SCBOUNDARY
Panel Type	Rigid	Rigid	Rigid	Rigid
Total Solar Watts	380	380	570	720
Array Sq Ft	22.5	22.5	33.75	44.33
Charge Controller Amps	30A/PWM	30A/PWM	60A/MPPT	60A/MPPT
Panel Expansion Option	Maxed Out	Maxed Out	1QTY PV190MONO	Maxed Out
Total kWh Battery	2.4	4.8	4.8	7.2
Battery Part #	AGM12V200A	AGM12V200A	AGM12V200A	AGM12V200A
# of Batteries	1	2	2	3
Battery Type	AGM	AGM	AGM	AGM
Estimated Runtime Common Use	8 Hours @ 300 Watts	8 Hours @ 600 Watts	8 Hours @ 600 Watts	12 Hours @ 600 Watts
Inverter Watts Continuous/Surge	1500/4500	3000/9000	2000/6000	4000/12000
Inverter	PICOGLF15W12V120VR	PICOGL3K12050BY	PICOGLF20W12V120VR	PICOGLF40W12V240VS
Transfer Switch	Yes	Yes - 50A	Yes	Yes
AC Charger	Yes	Yes	Yes	Yes
AC Output (V)	120	120	120	120/240

HOMESTEAD CLASS
THE OFF-GRID STANDARD

Serious Off-Grid Power for Independent Living

The **Homestead Class** is engineered for cabins, remote homes, workshops, and users who rely on solar as their primary energy source. These professional grade systems combine substantial battery storage, high output solar charging, and heavy duty inversion to support daily residential power demands.

Designed for full time use, **Homestead** systems are ideal for powering appliances, tools, pumps, and critical household systems with dependable long term performance.

Need dependable everyday off-grid power?

The **Mesquite** delivers strong daily residential performance with substantial battery storage and reliable solar charging for cabins and remote homes.

Need split-phase power for pumps and heavy equipment?

The **Ponderosa** is built for advanced off-grid systems requiring 120/240V output to support well pumps, large appliances, and demanding residential loads.

PART NUMBER	HCBRISTLECONE	HCMESQUITE	HCPONDEROSA	HCTAMARACK	HCIRONWOOD
Panel Type	Flexible	Rigid	Rigid	Rigid	Rigid
Total Solar Watts	460	570	1320	990	1140
Array Sq Ft	24.97	33.75	74	55	67.5
Charge Controller Amps	60A/MPPT	60A/MPPT	60A/MPPT	80A/MPPT	60A/MPPT
Panel Expansion Option	1QTY PV230SLIM	1QTY PV190MONO	Maxed Out	Maxed Out	2QTY PV190MONO
Total kWh Battery	2.4	7.2	14.4	7.2	7.2
Battery Part #	AGM12V200A	AGM12V200A	LFP12V300A	LFP12V300A	LFP12V300A
# of Batteries	1	3	4	2	2
Battery Type	AGM	AGM	LiFePO4	LiFePO4	LiFePO4
Estimated Runtime Common Use	24 Hours @ 100 Watts	24 Hours @ 300 Watts	12 Hours @ 1200 Watts	24 Hours @ 300 Watts	24 Hours @ 300 Watts
Inverter Watts Continuous/Surge	3000/6000	4000/12000	6000/18000	4000/12000	5000/10000
Inverter	PWRI300012120S	PILF40W12V120V	PICOGLF60W24V240VS	PICOGLF40W12V120V	PWRIG500024120S
Transfer Switch	No	No	Yes - 50A	Yes	No
AC Charger	No	No	Yes	Yes	No
AC Output (V)	120	120	120/240	120	120

RESERVE CLASS

LARGER HOME & MID-SIZED BUSINESSES

Industrial Grade Power for Large Homes, Ranches, and Business Operations

The **Reserve Class** is designed for users with serious energy demands who need dependable power for large residential properties, ranches, remote operations, and commercial backup applications. These systems combine massive solar production, deep energy storage, and industrial grade inverter performance to support sustained off-grid operation and heavy electrical loads.

Built around efficient high voltage architecture and split-phase power capability, **Reserve** systems are engineered for long term reliability in demanding environments.

Need long runtime and deep storage?

The **Badland** is ideal for users prioritizing extended battery reserve capacity and sustained off-grid operation for large properties and backup systems.

Need maximum whole-property capability?

The **Outpost** delivers industrial grade 12000W inverter performance for powering large homes, pumps, HVAC systems, heavy machinery, and demanding commercial equipment.

PART NUMBER	RCBADLAND	RCRIMROCK	RCHEADWATER	RCOUTPOST
Panel Type	Rigid	Rigid	Rigid	Rigid
Total Solar Watts	3960	1980	3960	3960
Array Sq Ft	220	110	220	220
Charge Controller Amps / MPPT or PWM	80A/MPPT	80A/MPPT	80A/MPPT	80A/MPPT
Panel Expansion Option	Maxed Out	1QTY PV330MONO	2QTY PV330MONO	2QTY PV330MONO
Total kWh Battery	19.2	7.2	19.2	28.8
Battery Part #	AGM12V200A	LFP12V300A	AGM12V200A	AGM12V200A
# of Batteries	8s	2	8	12
Battery Type	AGM	LiFePO4	AGM	AGM
Estimated Runtime Common Use	24 Hours @ 800 Watts	12 Hours @ 600 Watts	24 Hours @ 800 Watts	24 Hours @ 1200 Watts
Inverter Watts Continuous/Surge	4000/12000	6000/18000	6000/18000	12000/36000
Inverter	PICOGLF40W48V240VS	PICOGLF60W24V240VS	PICOGLF60W48V120V	PICOGLF12KW48V240VS
Transfer Switch	Yes	Yes - 50A	Yes - 50A	Yes - 50A
AC Charger	Yes	Yes	Yes	Yes
AC Output (V)	120/240	120/240	120	120/240

PRO CLASS

INDUSTRIAL EXCELLENCE

Luxury Performance for Professional Grade Off-Grid Power

The **Pro Class** represents the highest level of AIMS Power solar system performance. Built for luxury properties, advanced off-grid installations, and demanding commercial applications, these systems combine massive solar production with premium LiFePO4 battery storage and industrial grade inverter capability.

Engineered around efficient 48V architecture and true 120/240V split-phase output, **Pro Class** systems deliver rapid battery recovery, exceptional surge capability, and dependable long term energy independence.

Need premium split-phase lithium power?

The **Promethium** provides high-performance lithium storage and industrial-grade inverter capability for pumps, motors, HVAC systems, and luxury off-grid installations.

Need maximum solar production and rapid recovery?

The **Tungsten** features AIMS Power's largest solar harvest configuration, making it ideal for users with high daily energy demands who need relentless power availability and faster battery replenishment.

PART NUMBER	PCPROMETHIUM	PCTUNGSTEN	PCBORON
Panel Type	Rigid	Rigid	Rigid
Total Solar Watts	3960	6650	3960
Array Sq Ft	220	337.5	220
Charge Controller Amps	80A/PMMT	80A * 2 (Total 160A)/MPPT	80A/MPPT
Panel Expansion Option	Maxed Out	Maxed Out	Maxed Out
Total kWh Battery	19.2	19.2	28.8
Battery Part #	LFP48V200A	LFP48V200A	LFP48V200A
# of Batteries	2	2	3
Battery Type	LiFePO4	LiFePO4	LiFePO4
Estimated Runtime Common Use	12 Hours @ 1600 Watts	12 Hours @ 1600 Watts	24 Hours @ 1200 Watts
Inverter Watts Continuous/Surge	12000/36000	12000/36000	12000/36000
Inverter	PICOGLF12KW48V240VS	PICOGLF12KW48V240VS	PICOGLF12KW48V240VS
Transfer Switch	Yes - 50A	Yes - 50A	Yes - 50A
AC Charger	Yes	Yes	Yes
AC Output (V)	120/240	120/240	120/240

SOLAR SIZING TOOL

INPUT YOUR POWER NEEDS AND GET RECOMMENDATIONS

SOLAR PANELS

Keep you batteries charged and your power flowing with our 50 to 550 watt solar panels, engineered from advanced monocrystalline cells for maximum energy efficiency. Designed to perform in tough conditions, each panel built with high quality tempered glass and rugged frame or durable flexible material to handle harsh environments. From remote worksites and RV adventures to off-grid cabins and everyday home backup systems.

SOLAR PANEL	MODEL #
50 Watt Panel Aluminum Frame Mono	PV50MONO
60 Watt Panel Foldable Case	PV60CASE
100 Watt Panel Aluminum Frame Mono	PV100MONO
100 Watt Narrow & Long Aluminum Frame Mono	PV100MLONG
120 Watt Panel Aluminum Frame Mono	PV120MONO
130 Watt Panel Flexible Mono	PV130SLIM
220 Watt Panel Aluminum Frame Mono	PV220MONO
230 Watt Panel Flexible Mono	PV230SLIM
330 Watt Panel Aluminum Frame Mono	PV330MONO
555 Watt Panel Aluminum Frame Mono (black frame)	PV555MONO
360 Watt Panel Foldable Mono	PV360FOLD
*NEW SIZES RELEASED MONTHLY	CALL

RIGID
Efficient & Economical

FOLDABLE
Portable and lightweight. Easy to store.

FLEXIBLE
Bendable, Lightweight & Ideal for Curved Surfaces

How much space do I need for solar panels? Whether you have 8 feet or 30 feet of space, we have solar options to fit your need.

1 panel kits – 8 sq. ft.
2 panel kits – 16 sq. ft.
3 panel kits - 24 sq. ft.
4 panel kits - 32 sq. ft.
**Based on a 120W panel.*

INLINE SOLAR FUSES

Use an AIMS Power MC-4 Compatible inline fuse for added protection and stable connection.

- Short circuit protection
- Includes fuse and holder
- Simple click-and-use design
- Waterproof IP67
- 1000 V DC
- 15 & 30 Amp Available

Part #: PV-F15 & PV-F30

MC-4 COMPATIBLE BRANCH CONNECTORS FOR SOLAR PANELS

Easily parallel connect your solar panels. AIMS Power offers 3 to 1 and 2 to 1 connectors. Also known as T-Branch.

Part #s: PVMC4-2TO1 & PVMC4-3TO1

FOLLOW THESE QUICK INSTRUCTIONS TO DETERMINE THE RIGHT KIT FOR YOU:

STEP 1:
Estimate the highest amp draw at one given time. Also, note whether you need 120V or 240V or both. This info will help us size the inverter.

STEP 2:
Calculate total approximate amps needed in a 24 hour period. This will assist us with calculating the number of batteries and panels needed. Do not under estimate your demand.

STEP 3:
Note whether you will be completely off grid, using grid power or generator power when available.

STEP 4:
Calculate the amount of space available for panels.

CHARGE CONTROLLERS

Solar charge controllers act as essential voltage and current regulators, protecting your batteries from overcharging when connected to solar panels. AIMS Power offers both high-efficiency MPPT models and affordable PWM options, giving you the flexibility to build a system that fits your performance needs and budget.

Our MPPT controllers use an advanced automatic smart-tracking algorithm to maximize energy harvest, operating at an impressive 97.5-99% efficiency with minimal power loss. Each controller includes LED indicators for quick status and fault checks, along with a clear LCD display showing real-time information such as battery voltage, solar panel voltage, charging current, and charge mode.

AIMS Power charge controllers support multiple battery chemistries including lead-acid, AGM, gel, and lithium, making them a versatile choice for a wide range of off-grid, mobile, and backup power applications.

SOLAR CHARGE CONTROLLER	MODEL #
11 AMP PWM 12V Waterproof Pre-Wired With Cables	SCC11ARPM
20 AMP PWM 12V/24V USB/Adjustable Charging Settings	SCC20APWM
30 AMP Flush Mount PWM 12V/24V USB/ Adjustable Charging Settings	SCC30AFM
30 AMP PWM 12V/24V USB/Adjustable Charging Settings	SCC30APWM
30 AMP MPPT 12/24/36/48V Adjustable Charging Settings Stackable	SCC30MPPT
60 AMP MPPT 12/24/36/48V Adjustable Charging Settings Stackable	SCC60AMPPT
80 AMP MPPT 12/24/36/48V Adjustable Charging Settings Stackable	SCC80AMPPT

NEW MODELS RELEASED MONTHLY

ACCESSORIES

PV SOLAR ENTRY GLAND ROOF MOUNT

A 2 wire roof mount cable entry provides a quick and efficient way to connect solar wires in an RV, boat, or any vehicle needing solar. The cable entry minimizes cable exposure, providing extra protection, resulting in a neat solar installation.

Part #: PV-2WEGMC4 (10 inch leads)
Part #: PV-2WEGMC4-10 (10 Ft leads)

SOLAR PANEL Z BRACKETS

This 4-piece set provides a quick mounting system for your solar panels on RVs, boats, vans, buses, and commercial trucks. This system can be used on roofs or walls and includes all hardware.

Part #: PV-ALBRACKET

UNIVERSAL ADJUSTABLE SOLAR PANEL MOUNT

This single solar panel universal mount fits any solar panel and can be mounted almost anywhere. The preassembled legs with included base allow for quick installation and minimal labor. The angle easily adjusts using the rear legs and tilt system.

Part #: PV-ADJ

QUICKLY SHUT DOWN POWER IN YOUR RV/TRAILER - PATENTED

The **AIMS Power Solar Rapid Disconnect (RSD) & Cable Entry Port (CEP) System** is a patented safety solution designed to help RV owners, installers, and manufacturers meet **RVIA rapid shutdown safety requirements** while providing emergency responders with a fast, reliable way to de-energize rooftop solar.

Designed for RVs and other solar-equipped vehicles, the system automatically shuts down solar power whenever 12V control power is lost, including if the battery is disconnected or fails. This automatically de-energizes the solar array at the module level, preventing voltage and current from traveling into the RV or trailer.

Part #: PV-RSD1 | Patent US 12,489,396 B2

SOLAR GENERATORS

DITCH THE NOISE AND FUMES OF TRADITIONAL GENERATORS

Onboard All-In-One Solar Generator

Portable All-In-One Solar Generator

VS

Standard Generator

Whether you're off-grid, on the job, or simply enjoying the outdoors, AIMS Power offers TWO powerhouse solutions that redefine portable energy. Quiet, clean, and reliable power wherever you need it.

Our All-In-One Solar Generators combine a $LiFePO_4$ battery, inverter, solar charger, and transfer switch into one compact system. The **ONBOARD** model delivers up to 5.58 kWh, expandable to 50 kWh, while **PORTABLE** models provide up to 5.04 kWh and can be expanded with optional extender batteries to a massive 80 kWh.

Featuring ultra-fast charging, automatic transfer capability, real-time monitoring, and versatile power outputs, they're built for off-grid living, job sites, RVs, backup power, and emergencies.

ONBOARD ALL-IN-ONE SOLAR GENERATOR

FEATURES

ONBOARD 5.58 KWH

Massive Power Output: Provides enough power for large appliances and devices requiring up to 25 AC amps, 3 kW Continuous, 300% Surge, 120Vac & 240Vac 50A Transfer Switch, 100 amp DC port.

Large Battery Storage: Ensures long-lasting performance to keep your devices running for hours. Pair with solar and your devices will run for days. Expandable up to 8 additional extender batteries for 50 kWh!

Hard Wire: Equipped with a hard wire port for flexible output options to power large appliances and electronics

Versatile Recharging Options: Recharge via solar, alternator, generator, or grid. Recharges in under 4 hours if using grid/generator or solar up to 1400 watts. If using solar and generator/grid, charge time is under 2 hours.

Safe, clean and tidy design

Low cost and fast installation

Part #: AIO-12V
Extra Battery Part #: AIO-12V-BAT2

PORTABLE ALL-IN-ONE SOLAR GENERATOR

ONE OF THE MOST POWERFUL IN THIS CLASS

FEATURES

PORTABLE UP TO 5.04 KWH

High Power Output: Provides enough power for large appliances and devices. 3.1 kWh or 5.04 kWh models available. 30A or 33A output.

Multiple Output Ports: Run appliances, tools and other equipment from 20A and 30A outlets, small devices on Type A & C USB ports

Powerful Battery Storage: Ensures long-lasting performance to keep your devices running and can be used as a UPS. Expandable up to 15 additional extender batteries for 80 kWh!

Quick Recharge: Recharge via solar or grid. Recharges in under 3 hours (depending on charging source).

Part #: AIO-3KWH3600W - 30A, 3.1 kWh
Part #: AIO-5KWH4KW - 33A, 5.04 kWh
Extra Battery Part #: AIO-12V-BAT2 (only compatible with AIO-5KWH4KW)

WARRANTY

LIFETIME lithium battery warranty and tech support (<3500 cycles)

3 Year electronics warranty

ACCESSORIES

ENERGY MANAGEMENT SWITCH

Prevent Tripping of Breakers

- Cost effective solution for power management
- Isolate loads that share the same 20amp breaker
- Primary and secondary load management

Part #: EMS18A

IGNITION RELAY SWITCH

Power on your Inverter with an Ignition

- Power on using any trigger switch or ignition
- Easy to install
- Works with most AIMS Power inverters

Part #: REMHFIGNITE & REMLFLCDIGN

AIMS PRO BLUETOOTH MONITOR

Conveniently check the status of your AIMS Power products using a Smartphone or on your PC . Installation is quick and plug-n-play.

Part #: BT-AIMS-PRO

Compatible with PICO, PILF, 24V & 48V lithium batteries, MPPT

LITHIUM BATTERY REGULATOR

Safely Charge Lithium Batteries with an Alternator

- Use different battery types in the same application
- Charge lithium with vehicle, wind, hydro or any 12V system
- Easy to install
- 100A & 200A available

Part #: LFP12V100AREG & LFP12V200AREG

DUAL BATTERY SENSING ISOLATOR

Never have a Drained Vehicle Battery Again!

- A safe way to charge your auxiliary battery while driving
- No need to tie to ignition, save installation time
- Ability to use an external charging device to charge main battery through aux battery
- Cost-effective protection against a flat start battery

Part #: BATISO300 & BATISOSW (manual switch)

REMOTE BATTERY MONITOR

A Fuel Gauge for your Battery

- Battery Voltage up to 80V
- Battery current
- Battery State of Charge (SOC)
- Total Ampere-hour capacity
- Bluetooth

Part #: BATMON500

CLAMP METER

Precise Digital Meter for your System

- Easy to use
- True RMS
- DC/AC Current & Voltage
- Frequency
- Resistance
- Duty Cycle
- Diode
- Capacitance
- Continuity

Part #: CLAMPMETER

SHINE A LIGHT ON SOLAR KIT QUESTIONS

Can these kits power refrigerators and freezers?

Yes. Many Expedition, Sentinel, Homestead, Reserve, and Pro Class systems are capable of running:

- Residential refrigerators
- 12V refrigerators/freezers
- Compact freezers
- Beverage coolers

Larger systems provide longer runtime and greater surge capability for compressor based appliances.

What solar kit do I need for off-grid cabins or remote homes?

The Homestead Class is designed for full-time off-grid living and remote properties. These systems are commonly used to power:

- Refrigerators
- Well pumps
- Power tools
- Lighting
- TVs
- Entertainment systems
- Kitchen appliances
- Washing machines
- Internet equipment

Select split-phase 120/240V systems for larger loads like pumps, motors, or heavy duty equipment.

What kit can run larger RV appliances?

Mid-size Expedition kits like the Bull and Bighorn are designed for larger RV loads, or a simple, clean system such as the Armadillo for extended off-grid stays. These systems can support:

- Microwaves
- Coffee makers
- Air fryers
- Induction cooktops
- Toasters
- Hair dryers
- Electric kettles
- Space heaters
- RV refrigerators
- Starlink systems

These kits are ideal for full-time RV living and larger mobile power setups.

Which kits are best for home backup power for essentials?

The Sentinel Class is designed specifically for backup applications.
These kits can help power:

- Refrigerators
- Lighting
- Wi-Fi and internet equipment
- Electronics
- Coffee makers
- Coffee Pots
- Air fryers
- Medical devices

Larger Sentinel and Reserve systems support more appliances, such as AC units and provide longer runtime during outages. If you have the space, these are great options.

What's the difference between AGM and LiFePO4 lithium battery kits?

AGM battery kits:

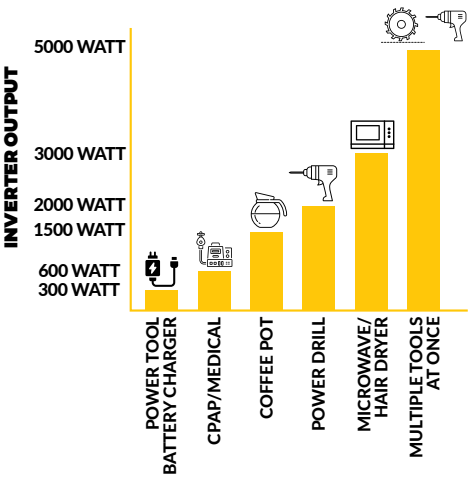
- Lower upfront cost
- Reliable and proven technology
- Excellent for backup systems and moderate daily use

LiFePO4 lithium kits:

- Longer cycle life
- Faster charging
- Lighter weight
- More usable battery capacity
- Better efficiency for full-time off-grid use

Users looking for premium performance and long-term energy independence often choose lithium systems. If looking to power more than just essentials such as AC units, consider a kit from our Reserve Class.

DESIGN YOUR POWER



WHY AIMS POWER

APPROACHING 3 DECADES OF EXCELLENCE

At AIMS Power, we have been leading the industry for over 25 years by consistently delivering the best quality products, unbeatable customer service, and unparalleled tech support.

Our quick design turnaround and flexible approach ensure customized solutions tailored to your needs. With thousands of projects completed since 2000, our proven track record speaks volumes.

We have dedicated global R&D and engineering teams that provide innovative solutions, while our Nevada inventory ensures prompt delivery.

Choose AIMS Power for a partnership that combines innovation, flexibility, and dedication to excellence, driving your satisfaction.

1,000,000 INVERTERS SOLD GLOBALLY!

AIMS POWER APPLICATIONS INCLUDE

SOLAR INSTALLERS

RV MANUFACTURERS AND DEALERS

WORK TRUCKS AND FLEET VEHICLES

OEMS AND UPFITTERS

BUS & VAN MANUFACTURERS AND OPERATORS

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