

# ALL IN ONE SOLAR POWER BOX USER'S MANUAL







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# SAY GOODBYE TO LOUD GENERATORS AND USE THE ALL IN ONE SOLAR POWER BOX!

# PRODUCT DESCRIPTION

### **Heavy Duty All-in-One Solar Power Box**

Introducing our industrial-grade all-in-one power box, designed to meet your most demanding power needs. This robust unit combines a powerful lithium battery, a versatile low frequency inverter, and multiple solar inputs. Whether you're working in a remote location or facing an unexpected emergency, this all-in-one unit is your lifeline.

### **Designed for Serious Power Needs**

This product is engineered for serious power demands, perfect for remote locations or heavy-duty setups. While it can handle smaller tasks like charging cell phones or powering a TV at a tailgate, its primary focus is delivering dependable, high-capacity power for critical applications. Its sturdy construction ensures it remains securely in place, prioritizing safety and reliability when installed. A robust solution for those who need power they can count on.

### **Key Features:**

- High-Powered Lithium Battery: Equipped with a 400 AMP 12V lithium battery, delivering an impressive 5.12kWh (5120 Wh) of energy storage.
- Versatile Inverter Charger: Features a 3000 Watt, 120 Vac output, 25A inverter charger with a 50 amp bypass at 240V, ensuring reliable power inversion.
- Multiple Solar Inputs: Supports up to 1400 Watts with a 100A max input, allowing for efficient solar energy harnessing.
- Powerful Charging Options: Includes a 100A grid/generator input charger and a 200A alternator charging input for flexible power sourcing.
- No External Breakers/Fuses Needed: Simplifies installation and maintenance.
- Expandable System: Expandable up to 8 batteries to scale your power needs.
- Advanced Monitoring: Optional Bluetooth monitor and LCD display for real-time system monitoring.
- Communication Ports: Equipped with CAN & RS485 communication ports for seamless integration with other systems.
- High Capacity DC Load Port: Features a 100A DC load port for direct DC power supply.

### **Applications:**

- Ideal for mobile businesses, ensuring uninterrupted power supply on the go.
- Perfect for large RVs, providing reliable power for all your appliances and devices.
- Suitable for industrial applications, remote locations, and emergency backup systems.

### Why Choose Our Power Unit Over Competitors?

Superior Capacity: With a 5.120 kWh battery, our unit offers double the capacity of most competitors, ensuring you have more power when you need it.

- Flexible Recharging: Unlike many products that rely on a single recharging method, our unit offers multiple options, including solar, alternator, generator, and grid, giving you the freedom to recharge anywhere.
- Expandable Design: While many competitors limit you to a fixed battery capacity, our unit allows you to connect up to 2 batteries in parallel, providing unmatched scalability.
- Independent Operation: The ability to run the battery and electronics separately sets our unit apart, offering greater versatility and reliability.
- User-Friendly Features: With both Bluetooth and LCD options, you can easily monitor your AIO. Say goodbye to power interruptions and hello to a reliable, all-in-one power solution.

# IMPORTANT SAFETY INFORMATON

Read this manual before installation, as it contains important safety, installation and operating

instructions. Keep it in a safe place for future reference. <u>All references to "AIO" throughout the manual are</u> for the All-In-One Solar Power Box, part # AIO-12V.



• Caution. Risk of electric shock



• Do not place or install near flammable or explosive materials



Install the product out of reach of children



Heavy! May cause serious injury to the back



• Observe precautions for handling electrostatic discharge sensitive devices

All wiring must follow the National Electric Code, Provincial or other codes in effect at the time of installation, regardless of suggestions in this manual. All wires should be copper conductors.

- 1. Do not expose the AIO to rain, snow, spray, bilge or dust. To reduce risk of hazard, do not cover or obstruct the ventilation openings.
- 2. Do not install the AIO in a zero-clearance compartment. Overheating may result. Allow at least 12" of clearance around the inverter for air flow. Make sure that the air can circulate freely around the unit. A minimum air flow of 145CFM is required.
- 3. To avoid risk of fire and electronic shock, make sure that the wiring used is in good electrical condition and that the wire is not undersized. Do not operate the AIO with damaged or substandard wiring.
- 4. The AIO contains components which may produce arcs and/or sparks. To prevent fire and/or explosion do not install in compartments containing batteries or flammable materials or in a location that requires ignition protected equipment. This includes any space containing gasoline-powered machinery, fuel tanks, joints, fittings, or other connection between components of the fuel system.
- 5. Do NOT attempt to open or service the AIO. This will void the warranty. It contains no user-serviceable parts. Attempting to service the AIO may result in electrical shock or fire. Internal capacitors remain charged after all power is disconnected.
- 6. To reduce the risk of electrical shock, disconnect both AC and DC power from the inverter before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.

# **CAUTION: Equipment Damage-Warranty Void**

The output side of the inverter's AC wiring should at no time be connected to public power or a generator.

Installer should ensure that the inverter's AC output is, at no time, connected to its AC input.

### WARNING: LIMITATIONS OF USE

SPECIFICALLY, PLEASE NOTE THAT THE AIO SHOULD NOT BE USED IN CONNECTION WITH LIFE SUPPORT SYSTEMS WE MAKE NO WARRANTY OR REPRESENTATION IN CONNECTION WITH THEIR PRODUCTS FOR SUCH USES. USING THE AIO WITH THIS PARTICULAR EQUIPMENT IS AT YOUR OWN RISK.

### **Precautions When Working with Batteries**

- ✓ Do not expose battery to open flame
- ✓ Do not place the battery near anything flammable. It may lead to fire or explosion.
- ✓ Do not expose or place near water sources like downspouts or sprinklers. Electric shock may occur.
- ✓ Do not store battery in a place exposed to direct sunlight
- ✓ Store and operate in a cool, dry, well ventilated area
- ✓ Store the battery on a flat surface
- ✓ Keep out of reach of children and animals
- ✓ Keep dust and dirt away from battery
- ✓ Do not disconnect, disassemble or repair by unqualified personnel. Service must be made by qualified personnel only.
- ✓ Do not drop, cut, puncture or penetrate the battery. It may cause leakage of electrolyte or fire.
- ✓ Do not touch if liquid is spilled on the product. There is a risk of electric shock. Use insulated gloves.
- ✓ Do not step on the battery. This could damage the battery.
- ✓ Do not place any foreign objects on the top of the battery
- ✓ Do not install the battery pack upside down
- ✓ Ensure polarity connection is correct. Do not reverse positive and negative wires to terminal block
- ✓ Do not attempt to charge or discharge a damaged battery
- ✓ Keep battery out of extreme weather elements. Store and operate indoors.
- ✓ Do not connect any AC conductors or photo-voltaic conductors directly to the battery pack
- ✓ Remove all jewelry during handling

- ✓ Do not smoke near the battery
- ✓ Do not use while on medication
- ✓ Do not drop tools or anything sharp on the battery. Shock may occur.

### **Response to Emergency Situations**

The battery consists of multiple fused batteries and a sophisticated BMS that are designed to prevent hazards resulting from failure. However, we cannot guarantee their absolute safety if battery is mishandled.

If a user happens to be exposed to internal materials of the battery cell due to damage to the outer casing, the following actions are recommended.

<u>Inhalation</u>: leave the contaminated area immediately and seek medical attention <u>Chemical eye burn:</u> rinse eyes with running water for 15 minutes and seek medical attention <u>Contact with skin:</u> wash the contacted area with soap thoroughly and seek medical attention Ingestion: seek medical attention.

### Fire

Use a foam extinguisher, CO2, ABC dry chemical, powdered graphite, copper powder or soda (sodium carbonate).

### **Users / Operators**

- Users of the AIO's battery should understand the functional principles and operation of on-grid and off-grid (backup) systems
- Mowledge of the dangers and risks associated with installing and using electrical devices at possible dangerous voltages is the responsibility of the user not AIMS Power
- Electrical certification and/or training is strongly recommended



Make sure all power is off and wires are disconnected when maintaining/servicing the AIO.

# UNPACKING

The AIO comes in two crates—one for the battery and one for the electronics. Handle with care when unpacking, as the item is heavy and may require two people. Report any damage or missing items to AIMS Power within **24 hours of delivery**.



Top = Electronics (inverter, PV, charger)

**Bottom= Lithium Battery** 

Components: AC Cover, 4-MC4 compatible connectors, and a pair of locking latches.



Heavy. Two-person lift.

### SAVE YOUR ORIGINAL PACKAGING!

# INSTALLATION

The AIO's heavy-duty steel case ensures long-term durability, making the unit quite heavy. Install it in a permanent location that supports 265 lbs, away from direct sunlight, moisture, dirt, and debris. See the Safety section of the manual (page 3) for details. Do not mount on its side.

### Installation Connections (more information under specifications)

- 1. Power Off: Before making any connections, turn off all AC and DC breakers.
- 2. **DC Load Connection:** First, connect the DC SB120 output from the DC load center, then connect it to the AIO-12.
- 3. **Battery Charging Input:** Use an SB350 connector to connect the battery charging input from the DC source to the AIO-12.
- 4. **Battery Expansion:** Connect the battery expansion SB350 to the expansion battery first, then connect it to the AIO-12.
- 5. **Solar Panel Wiring:** Wire the PV solar panels according to specifications, ensuring you do not overload each input.
- 6. AC Input and Output (See page 15 for wire diagram):
  - Wire the AC input or shore power from the source to the AIO-12. Ensure the supply breaker remains in the off position.
  - Then wire the AC output to breaker panel.



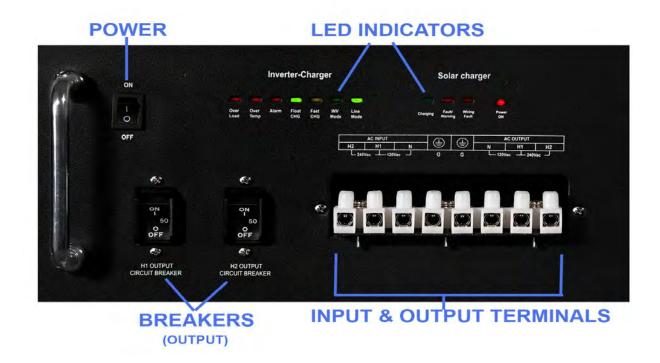


ALL IN ONE SOLAR POWER BOX 265 lbs

Only mount the unit in this position. Do not mount on its side. Allow airflow to circulate.

# ELECTRONICS MODULE INVERTER | SOLAR PV | BREAKERS







### **INVERTER**

The AIMS Power AIO delivers 3000 Watts of pure sine wave power with a 50 amp bypass, multi-stage battery charger, and AC auto-transfer switch—all seamlessly integrated into one unit. Designed for efficiency, it boasts a peak conversion rate of 88%, ensuring reliable performance for demanding applications.

Packed with **cutting-edge technology**, this inverter safely converts **DC battery power to AC**, providing **high surge capability** to support inductive loads without harming sensitive equipment. The unit intelligently switches between inverter and AC bypass mode, ensuring uninterrupted operation when grid power fluctuates. When utility power drops, the system **automatically transfers to battery power**, then seamlessly reconnects when AC is restored.

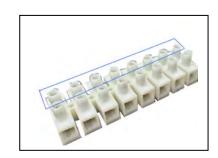
With a **300% overload capacity for up to 20 seconds**, it's built to handle heavy-duty tools and equipment. Plus, the **Battery Priority mode** maximizes battery usage for off-grid or backup power needs, giving you ultimate control and efficiency.

### **Inverter Features**

- Powerful 100 amp battery charger
- High surge ability up to 300% of rated power (20 sec)
- Bypasses 30A @120Vac and 50A @240Vac, Outputs 120Vac
- Low guiescent current, low power "Power Saving Mode" to conserve energy
- Automatic generator start (your generator must also have this feature)
- Battery temperature sensing for increased charging precision
- 3-step intelligent battery charger, PFC (Power Factor Correction)
- Powerful charge rate of up to 100Amps, selectable from 20%-100% using the current control dial
- 10 ms typical transfer time between battery and AC, guarantees power continuity
- Optional LCD remote control panel (Part # REMOTELF) or AIMS Pro Bluetooth Dongle (Part # BT-AIMS-Pro)
- Automatic ground & neutral bonding with manual disability
- 15s delay before transfer when AC resumes, extra protection for loads when used with

- generator
- Allows start up and through power with depleted batteries
- Cooling fans
- Extensive protection against various harsh situations
- 13VDC battery recovery point, dedicated for renewable energy systems
- CAN & RS485 communications

<u>AC Input and Output Terminal</u>: Use 4 AWG, high quality copper cable. Feed bare cable into the terminal block. **Do not** adjust the screws on the back row of the terminal block.



Auto Generator Start: Use 18 AWG speaker style type wire.

<u>Remote Port:</u> This port can be used with the AIMS Power LCD remote display part # REMOTELF or the Bluetooth dongle part # BT-AIMS-Pro. The Bluetooth dongle allows you to monitor your device using a cell phone.

## **SOLAR PV**

The AIO comes equipped with a **built-in MPPT solar charge controller** and **four PV connections**, designed for seamless solar integration. The **MC4-compatible PV connectors** support most solar panels, ensuring easy installation.

The advanced MPPT charge controller optimizes energy harvest with a **smart tracking algorithm**, adjusting automatically to changing weather conditions. Operating at an impressive **97.5–99% efficiency**, it minimizes power loss while maximizing solar input. When paired with solar panels, the controller will be sure to keep the lithium battery charged as long as you have sunlight.

Check the specifications for voltage and wattage details. Inputs 1 & 2 are tied together, and inputs 3 & 4 are tied together.



	Input 1+Input 2	Input 3 + Input 4
Max Wattage	700	700

# **BATTERY**

The AIO includes a high-capacity AIMS Power 12V 400Ah LiFePO4 Battery, delivering **5320 watt-hours** in a compact unit—maximizing power while saving space. Need more? A second battery add-on is available (max 8).

Compared to traditional battery technologies, this powerhouse offers **exceptional performance at half the weight** and lasts **up to 8 times longer**, giving you more cycles and better efficiency. Plus, it's built for **safety and reliability**, featuring a **Battery Management System (BMS)** for cell integrity, voltage protection, and temperature regulation.

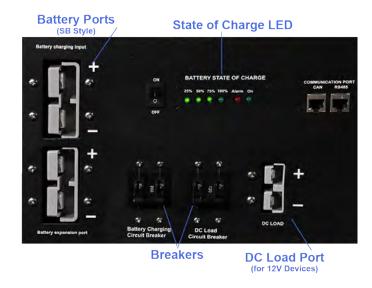
Enjoy automatic cell balancing, virtually no maintenance, and RS485 & CAN monitoring for seamless integration into your system. Whether you're powering an RV, solar setup, or backup energy source, this battery delivers consistent, high-output performance you can trust.

Experience next-level power without compromise—get the AIMS Power 12V 400Ah LiFePO4 Battery today.



### Recommended Cables (not included):

- DC input to battery SB350 grey 4/0 AWG
- Battery to battery SB350 grey 4/0 AWG (if using the add-on battery option)
- The DC output SB120 grey 4 AWG





Caution: Risk of electric shock.



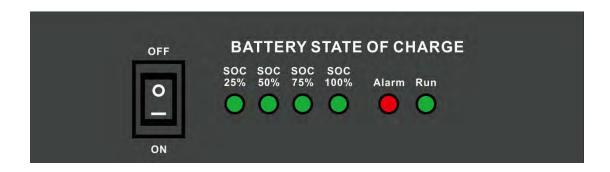


### **Battery Features**

- Up to 8 times more cycles compared to other battery technologies
- 3500 cycles at 80% DoD, 6000 cycles at 60% DoD
- Short circuit protection
- Automatic low voltage shutdown
- Over charge protection
- Over discharge protection
- Mount in any orientation
- Multiple batteries: 2 batteries in parallel maximum

- Automatic cell balancing
- High output current for inverters
- Battery status LED located on the front of the battery displays SOC percentage
- RS485 & CAN ports
- Power switch & Remote ON/OFF
- Built in Battery Management System (BMS)
- RoHS compliant
- IP21
- Reverse polarity protection (caution)
- No venting or gassing
- BMS temperature protection

The LED indicators on the front of the battery pack show its operational state as follows: **LED Flashes at point of SOC** 



### **Powering On/Off Battery**

### Power On

- 1. Turn on power switch after installing the battery pack. For parallel connected batteries, turn on power switch one by one.
- 2. Within seconds, the internal main relay will turn on, all LEDs will light up.
- 3. If the battery pack initializes successfully, the RUN LED indicator on the front will turn green. The SOC LED indicator will show the current capacity.
- 4. Turn on inverter.

### Power Off

- 1. Turn off DC load (inverter).
- 2. Turn off battery pack. For parallel connected batteries, turn off power switch one by one.
- 3. Within a few seconds, the internal main relay will cut off, all LEDs off.

RUN LED(green)	System working normal

	once/3S Flash: system warning				
Alarm LED(red)	once/1S Flash: system protection				
	Lit continuously: system fault				
	In Charging Mode				
	SOC<25%, LED1, LED2, LED3, LED4 flash in turn				
	25% <soc <50%,="" flash="" in="" led1="" led2,="" led3,="" led4="" lit,="" td="" turn<=""></soc>				
	50% <soc<75%, flash="" in="" led1,="" led2="" led3,="" led4="" lit,="" td="" turn<=""></soc<75%,>				
	75% <soc<95%, flash<="" led1,="" led2,="" led3="" led4="" lit,="" td=""></soc<95%,>				
SOC LEDs (4	SOC>95%, LED1, LED2, LED3, LED4 lit				
green)	In Discharging Mode				
	SOC< 10%, LED1, LED2, LED3, LED4 off				
	10% <soc<25%, flash,="" led1="" led2,="" led3,="" led4="" off<="" td=""></soc<25%,>				
	25% <soc<50%, flash,="" led1="" led2="" led3,="" led4="" lighting,="" off<="" td=""></soc<50%,>				
	50% <soc <75%,="" flash,="" led1,="" led2="" led3="" led4="" lit,="" off<="" td=""></soc>				
	SOC>75%, LED1, LED2, LED3 lit, LED4 flash				

### CAUTION!

If the ambient temperature is outside of the operating range, the battery pack may stop operating to protect the internal components. The **optimal** temperature range for the battery pack to operate is from 10°C to 30°C / 50°F to 86°F. Frequent exposure to harsh temperatures may deteriorate the performance and overall life of the battery and will void the warranty.

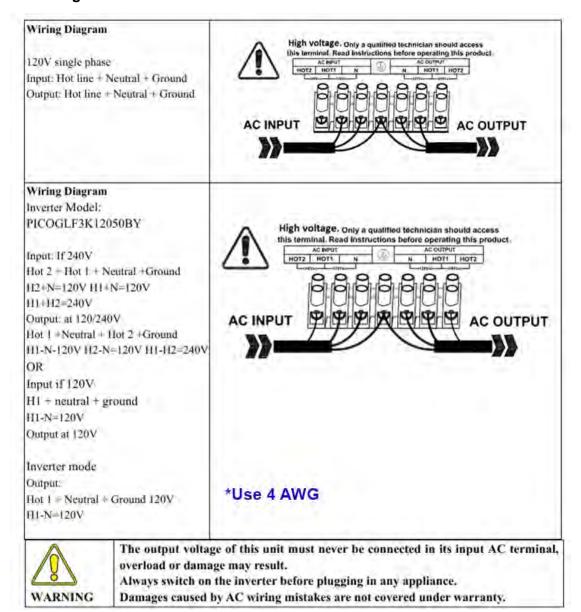
**Battery Management System.** The built in BMS is a central hub inside the battery that maintains constant voltage, current and temperature. The BMS allows for maximum charging capacity for faster charging and efficient discharging. It also communicates with the desktop monitoring software via the RS485 or CAN port.

# START UP

To power on the AIO-12 turn power switch on expansion battery first then main battery. Both batteries will indicate RUN and show SOC with green LED's . If only using main battery, power main first.

Once battery(s) are turned on you can now tun on the inverter with top power switch to ON. Once on it is now safe to tun on all DC and AC breakers one by one on the AIO-12

### **AC Wiring**



#### Indicator and Buzzer

		Indicator on top cover							LED on Remote Switch			
Status	Item	SHORE POWER ON	INVERTER ON	FAST CHG	FLOAT CHG	OVER TEMP TRIP	OVER LOAD TRIP	POWER SAVER ON	BATT CHG	INVERTER	Alarm	Buzzer
	CC	V	×	1	×	×	×	×	1	×	×	×
Line	cv	<b>V</b>	×	√, blink	×	×	×	×	1	×	×	×
Mode	Float	<b>V</b>	×	×	1	×	×	×	<b>V</b>	×	×	×
	Standby	<b>V</b>	×	X	×	×	×	×	×	×	×	×
Inverter	Inverter On	×	1	×	×	×	×	×	×	V	×	×
Mode	Power Saver	×	×	×	×	×	×	1	X	×	×	×
	Low Battery	×	4	×	×	×	×	×	×.	V	4	Beep 0.5 every 5
Inverter Mode	High Battery	×	1	×	×	×	×	×	×.	V	V	Beep 0.5
	Overload Invert Mode	×	<b>V</b>	×	×	×	٧	×	×	V	٧	Refer to
												alarm"
	Over-Temp Invert Mode	×	1	×	×	1	×	×	×	V	1	Beep 0.5 every 1s
	Over-Temp Line Mode	1	*	1	×	1	×	×	1	×	1	Beep 0.5 every 1s
	Over Charge	1	×	1	×	×	×	×	<b>V</b>	×	1	Beep 0.5 every 1s
	Fan Lock	×	×	×	×	×	×	×	×	×	×	Beep continuou
	Battery High	×	4	×	×	×	×	×	×	4	×	Beep continuou
	Overload Invert Mode	×	×	×	×	×	1	8	×	×	×	Beep continuou
Fault	Output Short	×.	×	×	×	×	1	×	×	×	1	Beep
	Over-Temp	×	×	х.	×	1	×	×	×	*	×	Beep continuo
	Over Charge	×	*	V	×	×	×	×	1	*	×	Beep continuou
	Back Feed Short	×	*	×	×	×	×	×	×	×	×	Beep continuou

Symptom	Possible Cause Recommended Solution		
Inverter will not turn on during initial power up.	Batteries are not connected, loose battery-side connections.	Check the batteries and cable connections. Check DC fuse and breaker.	
	Low battery voltage.	Charge the battery.	
No AC output voltage and no	Inverter has been manually	Press the switch to Power saver	
indicator lights ON.	transitioned to OFF mode.	on or Power saver off position.	
AC output voltage is low and the inverter turns loads OFF in a short	Low battery.	Check the condition of the batteries and recharge if possible.	
time.			
Charger is inoperative and unit	AC voltage has dropped	Check the AC voltage for proper	
will not accept AC.	out-of-tolerance	voltage and frequency.	
Charger is supplying a lower charge rate.	Charger controls are improperly set.	Refer to the section on adjusting the "Charger Rate". Source qualified AC power. Check all DC /AC connections.	
	Low AC input voltage.		
	Loose battery or AC input connections.		
Charger turns OFF while charging from a generator.	High AC input voltages from the generator.	Load the generator down with a heavy load.	
		Turn the generator output voltage	
		down.	
Sensitive loads turn off temporarily when transferring between grid and inverting.	Inverter's low voltage trip voltage may be too low to sustai certain loads.	Choose narrow AC voltage in the DIP switch, or Install a UPS if possible.	
Noise from Transformer/case*	Applying specific loads such as hair drier	oads such as Remove the loads	

# **SPECIFICATIONS**

	T				
	Continuous Output Power	3000W			
	Continuous Output voltage	120V Inverter - 120/240V 30/50A Bypass Mode			
	Surge Rating(20s)  Electric Motor Starting Capacity	9000W 3HP			
	Output Waveform	Pure Sine Wave			
	· ·				
	Nominal Efficiency  Line Mode Efficiency	83%(Peak) >95%			
Inverter Output	Power Factor				
Output		0.9-1.0			
	Nominal Output Voltage rms	120Vac			
	Output Voltage Regulation	±10% rms			
	Output Frequency	60Hz ± 0.3Hz			
	Short Circuit Protection	Yes. Current Limit Function (fault after 1s)			
	Max THD Under Full Load	<10% DC-AC			
	Typical Transfer Time	10ms (Max)			
DC Input	Nominal Input Voltage	12V			
	Minimum Start Voltage	11.5/12V			
	Low Battery Alarm	12/12.5V			
	Low Battery Trip	11.5/12V			
	High Voltage Alarm & Fault	16V			
	High DC Input Recovery	15.5V			
	Low Battery Voltage Recovery	12.5V			
	Input Voltage Range	90-135Vac			
	Input AC Current	15A for Charge Only   50A @ 240V Bypass			
	Output Voltage	13.6V			
	Charger Breaker Rating	30A			
	Max Charge Current (DC)	100 Amp			
01	Battery Initial Voltage for Start Up	11.5/12V			
Charge	Over Charge Protection Shutdown	14.8V when using the lithium battery, see DC Input specs for other battery types			
	Charge curve (4 stage constant current) digital controlled progressive charge. Bulk, Absorb, Float, Restart				
	Battery Type	Fast V Float V			
	Alternator Charge	200 A Regulator Built-in			
	Charge for Lithium Battery	13.8 13.6			
_	Input Voltage Waveform	Sine wave (Grid or Generator)			
	Nominal Voltage	120 AC Output and 120/240 VAC Bypass			
	Low Voltage Trip	90V±4%			
	Low Voltage Re-engage	100V±4%			
	High Voltage Trip	140V±4%			
Bypass & Protection	High Voltage Re-engage	135V±4%			
FIOLECTION	Max Input AC Voltage	150VAC			
	Nominal Input Frequency	60Hz			
	Low Freq Trip	40±0.3Hz			
		42±0.3Hz			
	Low Freq Re-engage	42±0.3Hz			

	High Freq Re-engage	68±0.3Hz				
	Overload Protection	Circui	t Breaker			
	Output Short Circuit Protection	Circui	t Breaker			
	Breaker Rating for AC Output	Į.	50A			
	Lithium LiFePO4	400 Ah				
	Voltage	12V	13.3 Nominal			
	Output Operation (Switch)	DC Port Voltage 9.4 - 14.4Vdc	Inverter 10.5-15V +/-0.5V			
	Rated Energy	5.12kWh				
	Cell Configuration	4S4P				
	Battery Cell	3.1V 100Ah 16PC Prismatic				
		14				
	Max Charge Voltage		14.2			
	Overcharge Protection Voltage		14.6			
	Charge Current	2	200A			
	Peak Charge Current	2	250A			
Battery	Protections		discharge, BMS, high and low shutdown,			
	Cell balancing		Yes			
	Parallel connection	Max 2				
	Operating Temp Range	Recommended 59°F to 86°F (15 to 30°C)	Discharge: -20 to 65°C/-4 to 149°F Charge: 0 to 65°C/ 32 to 113°F			
	Max Discharge Current	960A for 5 Sec   880A for 30 Sec				
	Protections	Over charge, over/under temp, restart, BMS				
	DC Input	10-14 Vdc				
	DC Output	10-	14Vdc			
	Discharge Current	300A SB 350 connector				
	DC Port Output	100A SB1	20 connector			
	Remote	Optional Bluetooth	n Dongle (AIMS PRO)			
	Kemote	Optional LCD Display (REMOTELF)				
	MPPT Controller	50A * 2 contr	rollers total 100A			
Solar	Max Solar Input Voltage		45V			
Inputs	PV Array (MC4 compatible connectors)		nput 1&2 same for input 3&4 tts combined			
	PV Array MPPT Votlage Range	18-115	Vdc (+5V)			
	Mounting	Surface must be a	ble to support 265 lbs			
	Inverter Dimensions(W*D*H)	29.25" x 24" x 10"	32" x 25" x 13" shipped			
	Inverter Weight	92 lbs / 10	5 lbs shipped			
	Lithium Battery Dimensions (W*D*H)	29.25 "x 24" x 15.75"	26" x 36" x 24" shipped			
Mechanical	Lithium Battery Weight	161 lbs 182 lbs shipped				
Moonanioai	Auxillary Lithium Battery Dimensions	26" x 32" x 14"				
	Auxillary Lithium Battery Weight	125 lbs 163 lbs shipped				
	Shipping Weight	298 lbs Freight Only (ships on different pallets)				
	Display	Status LEDs and C	Optional External LCD			
	Standard Warranty	2 Year				

# AIMS POWER LIMITED WARRANTY

This product is built using advanced digital technology and undergoes rigorous quality control and testing. If you experience any performance issues, please contact us at **techsupport@aimscorp.net** or **(775) 359-6703**. We will do our best to address your concerns.

If your product requires repair or replacement, please retain your receipt or invoice, as it must be included with the package and RA# when returning the item prepaid to AIMS. The product is covered by a **2-year warranty from the date of purchase**.

This warranty is valid worldwide, except customers outside the contiguous 48 United States are responsible for freight and duty charges.

Beyond the terms outlined above, AIMS makes no express or implied warranty, including but not limited to warranties of merchantability or fitness for a particular purpose. AIMS is not liable for indirect, special, or consequential damages.

This warranty applies **only to AIMS Power branded products**. Other brand-name products are covered by their respective manufacturers' warranties. Please do not return non-AIMS Power branded products to AIMS Power.

### SAVE YOUR ORIGINAL PACKAGING!

AIMS POWER 9550 GATEWAY DRIVE RENO, NV 89521 775.359.6703 WWW.AIMSCORP.NET