

# POWERFUL SOLAR ALL-IN-ONE POWER BOX



All-In-One Power Box



VS

Standard Generator



Ditch the noise and hassle of traditional generators. The AIMS Power industrial-grade all-in-one power box delivers an incredible **5,214 Watt Hours**—one of the highest capacities on the market. Need even more power? You can **expand with an additional 400Ah battery**, bringing your total to an astonishing **10,428 Watt Hours**. This powerhouse combines a high-capacity lithium battery, a versatile inverter charger, and multiple solar inputs—so you're covered whether you're off-grid, on the job, or facing an emergency.

## FEATURES

- High Power Output: Provides enough power for large appliances and devices requiring up to 25 AC amps, 3 kW (3,000 watts) 120Vac Pure Sine Inverter Charger with 50A Bypass 120Vac & 240Vac, 100 amp DC port.
- Large battery storage
- Versatile recharging options: Recharge via solar, alternator, generator, or grid. Recharges in under 4 hours if using grid/generator or max solar of 1400 watts. If using solar and generator/grid, charge time is under 2 hours.
- User-Friendly Interface & Monitoring: Choose between Bluetooth or LCD for easy monitoring and control.

## WARRANTY

10 Years Prorated Battery | 2 Year Electronics  
Extended warranty available



# SPECIFICATIONS

INVERTER OUTPUT	Continuous Output Power	3000W
	Continuous Output voltage	120V Inverter - 120/240V Bypass Mode
	Surge Rating(20s)	9000W
	Electric Motor Starting Capacity	3HP
	Output Waveform	Pure Sine Wave
	Nominal Efficiency	83%(Peak)
	Line Mode Efficiency	>95%
	Power Factor	0.9-1.0
	Nominal Output Voltage rms	120Vac
	Output Voltage Regulation	±10% rms
	Output Frequency	60Hz ± 0.3Hz
	AC 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
CHARGE	Input Voltage Range	90-135Vac
	Input AC Current	15A for Charge Only   50A Bypass
	Output Voltage	13.6V
	Charger Breaker Rating	30A
	Max Charge Current (DC)	100 Amp
	Battery Initial Voltage for Start Up	11.5/12V
	Over Charge Protection Shutdown	14.6V 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	
	LiFePO4 Battery Type	Fast V      Float V
	Charge for Lithium Battery	14.2      14.2
BYPASS & PROTECTION	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%
	High Voltage Re-engage	135V±4%
	Max Input AC Voltage	150VAC
	Nominal Input Frequency	60Hz
	Low Freq Trip	40±0.3Hz
	Low Freq Re-engage	42±0.3Hz
	High Freq Trip	70±0.3Hz
	High Freq Re-engage	68±0.3Hz
	Overload Protection	Circuit Breaker
	Output Short Circuit Protection	Circuit Breaker
	Wake-up Feature for Lithium	Yes
	Breaker Rating for AC Output	50A
OTHER	Operating Temp	-20 to 50° C/-4 to 122° F
	Bluetooth	Optional Bluetooth Dongle (AIMS PRO)
	Remote	Optional LCD Display (REMOTELF)

## MECHANICAL SPECIFICATIONS

Mounting	Surface must be able to support 265 lbs
Inverter Dimensions(W*D*H)	27.5" x 23.125" x 15.75"
Inverter Weight	265 lbs
Shipping Dimensions(W*D*H)	35.5" x 25.6" x 27.6"
Shipping Weight	298 lbs
Display	Status LEDs and Optional External LCD
Standard Warranty	2 Year   10 Year Prorated

**PART #: AIO-12V**

**OPTIONAL ADD-ON BATTERY (max 8): AIO-12V-BAT2**

