








## Store PV energy with Green Rhino Energy Storage Systems

Crystal® batteries and BMS technology make Green Rhino ESS systems the safest for indoor use with no maintenance.

The system provides clean and uninterrupted power in any application. Avoid high energy prices using an intelligent, economical, and reliable system.

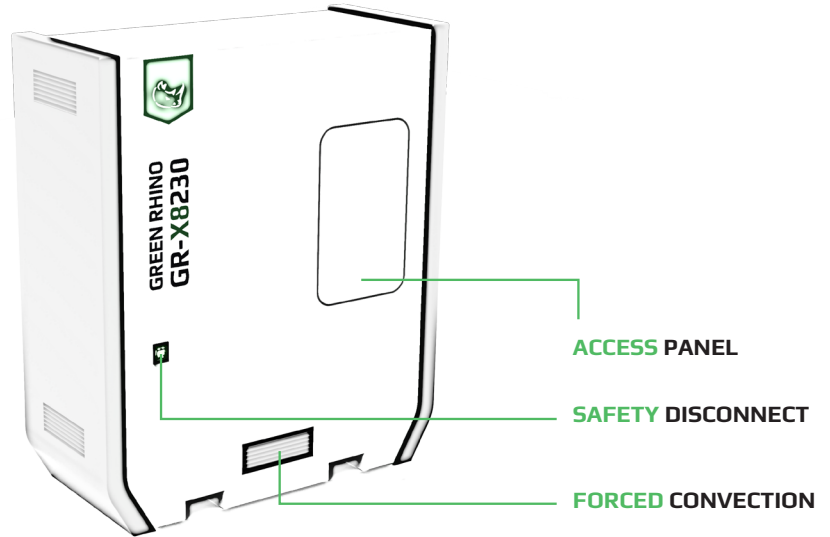
-  The safest system available in the market
-  Grid independence, avoid utility price increases
-  Significantly reduce electricity costs
-  Back-up power in the event of grid failure
-  10 year warranty



# GR-X8230

## TECHNICAL DATA

The growing popularity of residential solar panels has stimulated the interest in energy storage. Green Rhino ESS systems greatly benefit home owners by storing surplus energy which is harvested.



### PERFORMANCE SPECIFICATIONS

Model	GR-X8-230
AC Voltage	120 VAC +/-3% <5% THD
Feed-In Type	Single phase
Transfer Time	8ms
Grid Frequency	50/60Hz
Power	6.8kW (12kW @ 60s)
Storage	18.6 kWh gross
Effective Storage	5800W @ 1.6 hrs, 3360W @ 3.2 hrs 1500W @ 8 hrs, 820W @ 16 hrs
Max. DC Batt. Current to Inverter	180 A
Max. Continuous Current	60 A
Max. Output Current (60sec)	102 A
PF Full Charge Rate	98%
Idle Consumption	<28W
Recommended Depth of Discharge	50%
Efficiency	97% battery, 95.7% inverter
Electrical Insulation	2000VAC, 1 minute
Cooling	Thermal convection
Warranty	10 years

### ENERGY GATEWAY SPECIFICATIONS

User Interface	Mobile device
Connectivity	WiFi
Intelligent Features	Grid sell, peak load shave, generator support, Prioritized consumption of battery or external DC energy

Operating Modes	Wide range of usage scenarios
Backup Operation	Yes
Modularity	Yes
Remote Monitoring	Optional

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	0-95%, non condensing
Maximum Altitude	<2000m (6562ft)
Environment	Indoor / outdoor
Enclosure Type	IP24; NEMA 3R

### MECHANICAL SPECIFICATIONS

Dimensions (W x H x D)	124cm x 150cm x 36cm (49in x 59in x 14in)
Weight	680kg (1500 lbs) loaded
Mounting options	Floor mount

### COMPLIANCE SPECIFICATIONS

Safety	UL 1741, CSA 107.1, UL 1989, UL 1778 UL508, IEEE 1547, UL 1741-SA and CSA 107.1, FCC and Industry Canada Class B, FCC part 15, Class B Industry Canada, ICES-003 Issue 5, Class B
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MADE IN USA