

Green Rhino Energy Solutions  
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# 1 MWh POD COMBI-100 DATASHEET

[www.greenrhino-energy.com](http://www.greenrhino-energy.com)



## IT'S WHAT WE DO.

### OUR BUSINESS

Green Rhino exclusively provides power systems to the public which can supply from 100W to 100MW by use of the lead-crystal battery technology.

## BUILT ON THE EXCEPTIONAL LEAD-CRYSTAL BATTERY

A battery technology that is 100% safe, fast-charging, maintenance-free, long lifetime at high temperature, and priced just right.

The philosophy of Green Rhino is to develop systems with a homogenous platform. This consistent design methodology based upon years of experience, makes our energy systems as indestructible as the rhino in Green Rhino Energy.

Green Rhino empowers your energy independence into a renewable and commercial success.



Lower CAPEX, lowest OPEX, and increase ROI



Proven technology (7+ years of development)



Secure supply chain and assembly in USA

## Technical Specifications

<b>Model</b>	GR-COMBI100 (6 PODS)
<b>Dimensions</b>	(W x B x L): 1.4 x 1.3 x 2.1 m (55x51x83 in)
<b>Weight</b>	3300kg (7275lbs) loaded per pod
<b>AC Output</b>	60 Hz 120/208 VAC >0.95 PF
<b>Power</b>	100kW cont., 120kW (overload)
<b>Efficiency</b>	97% battery >94% inverter
<b>Phases</b>	Three phase + N + PE
<b>Voltage accuracy</b>	+ 3% / -3%
<b>Distortion</b>	<10% THD
<b>Dynamic Response</b>	5% (load 0-100%)
<b>Electrical insulation</b>	2000VAC, 1 Minute
<b>Protection</b>	Reverse polarity Overvoltage Short circuit Overcurrent
<b>Cooling</b>	Forced convection
<b>Noise</b>	<50dB (1 meter)
<b>Protection</b>	IP54 (NEMA 3)
<b>Working Altitude</b>	<2000m
<b>Working temperature</b>	-25 to 55 °C (-13 to 131 °F)
<b>Relative humidity</b>	0-90%, non-condensing
<b>Lifetime</b>	10 year design at 25°C
<b>Certification</b>	EN50178 IEC62109-1, -2, UL1989 ISO-9001, -14001 UL 508

Specifications subject to change without notice.

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# CHECK OUT THESE KEY FEATURES.



## Stringent™ AI

Green Rhino has developed a dedicated artificial intelligence which equalizes the batteries, increases system lifetime, and performs automatic maintenance of the batteries while allowing full remote access.



## Natural ventilation

The standard GR-POD system has natural ventilation resulting in great efficiency increases and less maintenance.



## Easy Transport and Setup

The POD is built for tough environments in a NEMA 3 enclosure with a pallet-design base. Setup and installation is quick and easy.



## Long life at temperature

The lead-crystal batteries are excellent performers at extreme temperatures when others fail. The *Stringent AI* further extends battery lifetimes by always operating batteries at their highest economic efficiency.



## Range of Applications

The system is suited to peak-shaving, grid capacity, microgrid, solar energy storage, Backup/UPS, remote power, and more.

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