EHR HYBRID

POWERING WORKFORCE & TRANSPORT EFFICIENCY.

What is the **EHR HYBRID?**

The **EHR HYBRID POWER GENERATOR** is a versatile **Mobile Power Solution** tailored for the rental market. It combines the efficiency of the EHR battery energy storage system (BESS) with the reliability of a HIPOWER Spark-Ignited or Tier 4 Final Diesel Generator, all within a single trailer. Available in sizes ranging from 20-40 kVA output with 20-60 kWh storage capacity, the EHR HYBRID offers various genset options to maximize energy production, workforce efficiency, and transport convenience.

ADVANTAGES & BENEFITS

- COST SAVINGS
- SMALLER FOOTPRINT
- LOWER EMISSIONS
- MOBILE EFFICIENCY

FUEL SYSTEM FLEXIBILITY

- DIESEL
- NG
- LP/LPV
- DUAL FUEL
- HVO

APPLICATIONS & USE

- RENTAL COMPANIES
- CONSTRUCTION
- AGRICULTURE
- EVENTS
- ENTERTAINMENT
- RENEWABLE APPLICATIONS

The EHR HYBRID POWER GENERATOR is a ready-to-use hybrid package on a single trailer. It simplifies logistics and maximizes workforce efficiency while reducing the overall system footprint.



Mobile Power

HIPOWER® A YANMAR COMPANY

60 Hz. MODELS

EHR Hybrid Power Node Options		20/40	30/60	40/60
Nominal power	kVA	20	30	40
Storage capacity	kWh	42.6	56.8	56.8
Voltage (60Hz)	VAC	240V/120V	208V	240V/120V
Lifespan (90% DoD)	Cycles	6000	6000	6000
Battery management system			LFP batteries with built-in BMS	
Recharge time / Maintenance time*				
• Recharge time	h	2.34	2.45	2.17
• Maintenance recharge (@DoD%)	h	11.17	14.90	14.90
Dimensions (L x W x H)	in		252 x 88.1 x 100.1	
Weight**	lbs	7000 - 7255	8200 - 9100	8600 - 9500

*Considering a total system efficiency of 0.892 (Inverter 0.95 | Battery 0.9 | Wiring 0.97). DoD@90% | **Weight will vary depending on genset configuration.

EHR Hybrid Power Node Options		20/40	30/60	40/60
Nominal power	kVA	20	30	40
Storage capacity	kWh	42.6	56.8	56.8
Discharge autonomy*				
• 100% of the rated power	h	1.47	1.31	1.09
• 75% of the rated power	h	1.97	1.75	1.46
• 50% of the rated power	h	2.95	3.12	2.18
• 25% of the rated power	h	5.90	5.24	4.37
Maximum Reduction of Run Hours** ***	%	79	75	71

*Considering a total system efficiency of 0.892 (Inverter 0.95 | Battery 0.9 | Wiring 0.97). DoD@90% | **Actual results may vary from estimates.
***Maximum reduction percentage based on 25% load of EHR Hybrid with Solar included.

Gensets Offered with EHR Hybrid Model	20/40	30/60	40/60
Tier 4 Final Diesel Models	HRIW 45	HRIW 45	HRIW 70
Natural Gas & Liquid Propane Models	HRSG 45	HRSG 45	

EHR HYBRID | FEATURES & BENEFITS

The combination of the EHR + genset prevents the genset from working at light load while reducing running hours.

Improves generator duty cycle, making it always work at an optimal load level.

Reduces overall fuel consuption.

EHR Hybrid can be set up to allow the EHR to support the genset to cover high load peaks.

With the addition of batteries and inverters, the EHR Hybrid does not need to be oversized for high transient loads when sized correctly.

Reduces your carbon footprint.

RENEWABLE ENERGY

Ready to connect Plug & Play PV panels to the system. Including up to *8kW MPPT, we can integrate renewable energies into any working mode, increasing efficiency.
Model 40/60 Single Phase includes 4kW MPPT.

ROBUST DESIGN

The mobile rental canopy withstands extreme environmental conditions and temperatures from -5°F to 122°F. The canopy has best-in-class primer and powder coating. Galvanized frame optional.

MAINTENANCE

With the potential reduction of run hours in excess of 80% versus a traditional genset, there is a significant reduction of preventative maintenance required.

HICORE | SMART MANAGEMENT SYSTEM

WORKLOAD OPTIMIZATION | USER FRIENDLY | SMART ASSISTANCE | ALWAYS CONNECTED

MODES OF USE

PLUG & PLAY | PEAK SHAVING | POWER BOOSTER | LOAD SHARING | LIGHT LOADING | UPS

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