

TIER 4 FINAL
MOBILE SERIES

FEATURING THE FOLLOWING ENGINES

ISUZU | JOHN DEERE | VOLVO

HIPOWER®
A YANMAR COMPANY

HIPOWER®
A YANMAR COMPANY

HIPOWER SYSTEMS´ Portable Generators

Powerful, Reliable, Dependable and Versatile on-site Energy Systems

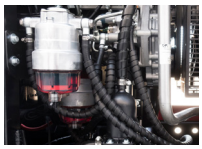
A wide range from **25 to 1375 kVA** covering the most demanding applications of the rental, construction, mining, oil/gas and entertainment industries.

Our world renowned acoustic enclosures designed to minimize sound levels as low as **63dB(A)** while ensuring the industries best Air to Boil ratings and avoiding water intrusion.



Robust packages designed to perform in the harshest environments

1



PROTECTED FLUID LINES

Plastic Spiral Guards to protect all Fluid Lines and Hoses.

2



SAFETY HOOK AND STEP

For safe and secure roof access on HRJW190 model and above.

3



EMBEDED LIFTING EYE

Center of Gravity Single Point Lifting Arc.

4



RAIN GUTTERS

Rain water drain rails.

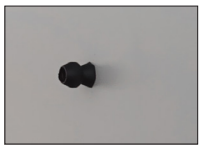
5



LOCKABLE SLAM DOORS

Lockable & Slam type Doors.

6



DOOR STOPPERS

All doors are equiped with door stoppers / holders to facilitate service operations.

ENVIROMENTAL FUEL TANKS

HIPOWER SYSTEMS generators feature skid baseframes with integrated **high capacity fuel tanks which provide a full load runtime of at least 24 hours*.**

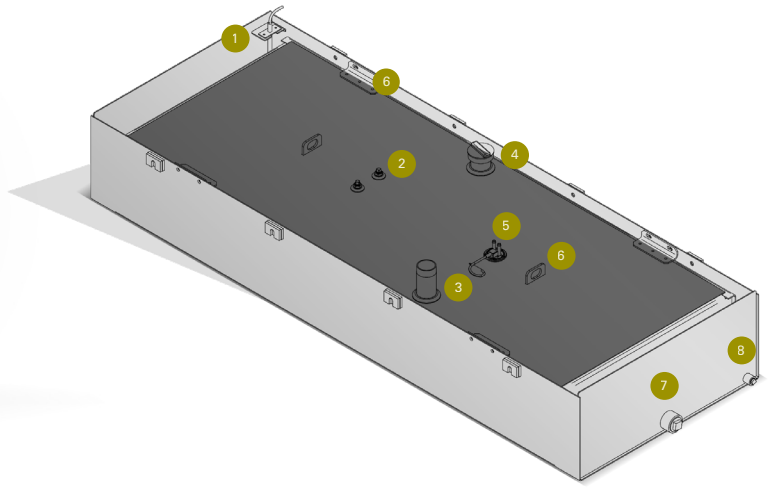
Our base frame is part of the environmental containment system that prevents spillages.

outside of the package and is connected to a standard alarm feature, safeguarding the environment.

**Optional feature for models HRJW-190-240*

1 LEAKAGE DETECTOR	5 FUEL LEVEL SENSOR
2 FUEL TANK PORTS	6 LIFTING HOOK
3 ADDITIONAL FUEL TANK VENTS	7 BASIN DRAIN CELL
4 FUEL FILLER CAP	8 TANK DRAIN CELL







1 SHORE POWER CONNECTION

Male inlet shore power for battery charger and block heater.

2 CAM-LOCK CONNECTORS

Single Pole 400A Female Cam-Lock Receptacle with weatherproof cover (optional feature).

3 CALIFORNIA STYLE

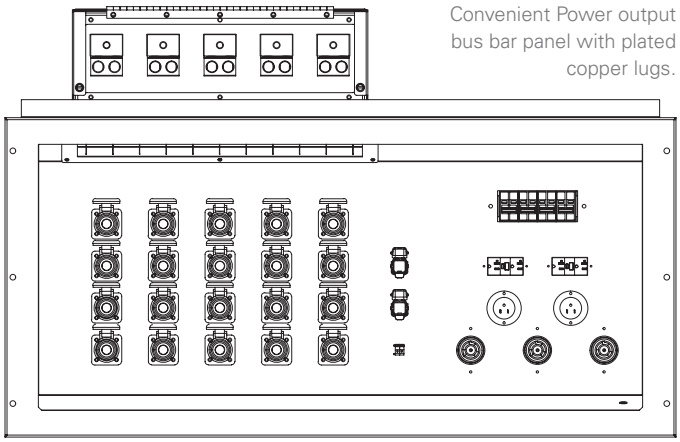
3 x 50 amps, 120 / 240 V twist locks receptacles.

4 GFI OUTLETS

2 x Duplex 120 V receptacles with individual breakers.

TERMINAL BOX

Convenient Power output bus bar panel with plated copper lugs.



CUSTOMER CONNECTION PANEL (CCP)

From our smallest 200 amp up to our largest 2000 amp, all our (CCP) are spacious and designed to accept a wide range of power cables.

Model	Ampacity	GFCI	Twist Locks	Shore Power Connection	Terminal Box
HRIW-25-45	200	4	3	1 for BH & BC	5 pole
HRIW-70-125	400	4	3	2	5 pole
HRJW-190-240	800	4	3	2	5 pole
HRJW-325	1200	4	3	2	5 pole
HRVW-625-685	2000	-	3	2	5 pole

CCP panels sizes and features

WIDE ACCESS GENERATOR CONTROL PANEL

InteliLite MRS 16

Comap "InteliLite MRS 16" control panel standard from HRIW-25 to HRIW-70



InteliVision 5

Comap "Intellivision 5" control panel standard from HRIW-125 and above including Multiple Parallel System with Motorized Circuit Breaker







Clean Electrical Arrangement with Labeled wires to meet Electrical and Safety Codes

1 **TRANSFORMER**
Dry Sealed Buck & Boost Transformer 1 Phase; 480 Pri. V 120/240 Sec. V; 1kVA (optional).

2 **AVR**
Generator AVR accessible at control panel box to facilitate regulation.

3 **CIRCUIT BREAKER**
ABB Standard Circuit Breaker for Auto Start Models HRIW 25 up to HRIW-70 motorized breaker standard HRIW-125 and above.

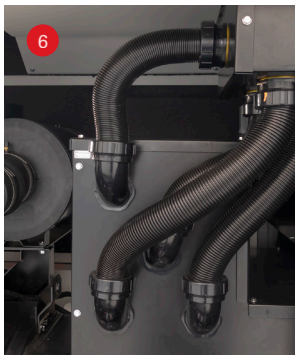
4 **USB PORT**
Export/import trends, history, archive of controller and InteliVision 12Touch firmware and others to USB stick.

5 **ROTARY SWITCH**
KRAUS & NAIMER Blue Line rotary switch with padlockable handle.

6 **ISOLATED CONDUITS**
High Quality electrical conduit for water resistance for each set of phase wires between alternator and control panel.

7 **BATTERY DISCONNECT**
Heavy Duty generator Battery Disconnect Switch.

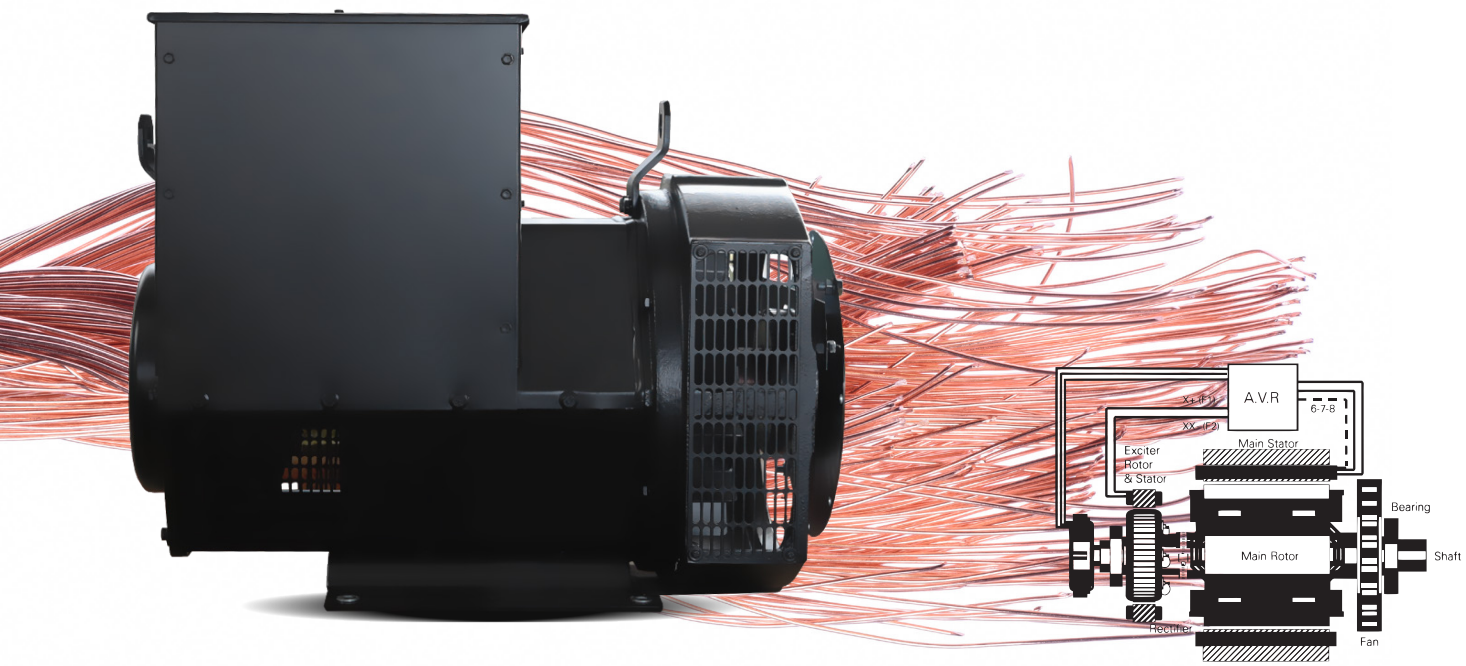






EFFICIENT ALTERNATORS

A powerful alternator is a must when powering critical jobs



BETTER GENERATOR PERFORMANCE

TEMPERATURE RISE CLASS F (105/40°C AMBIENT)

The resistance of the winding is a function of temperature of the winding. For a Class F insulated, 1.0 S.F. motor, if we add the NEMA allowable rise of 105°C to the reference ambient temperature (40°C), results in the motor having an operating temperature of (105+40)=145°C.

AVR MX341

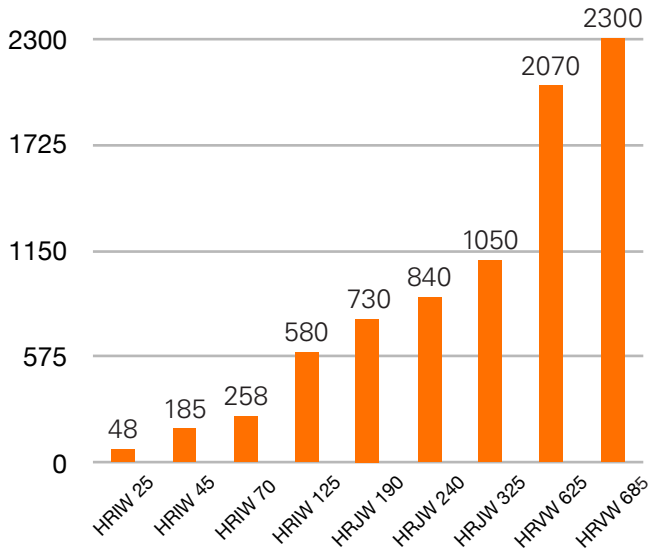
The MX341 achieves voltage regulation in the order of plus or minus 1.0 %, through the use of the PMG system. Protection against sustained over-excitation is standard on this AVR, as is a special engine relief load acceptance feature which enables full load to be applied in a single step.

PERMANENT MAGNET (PMG)

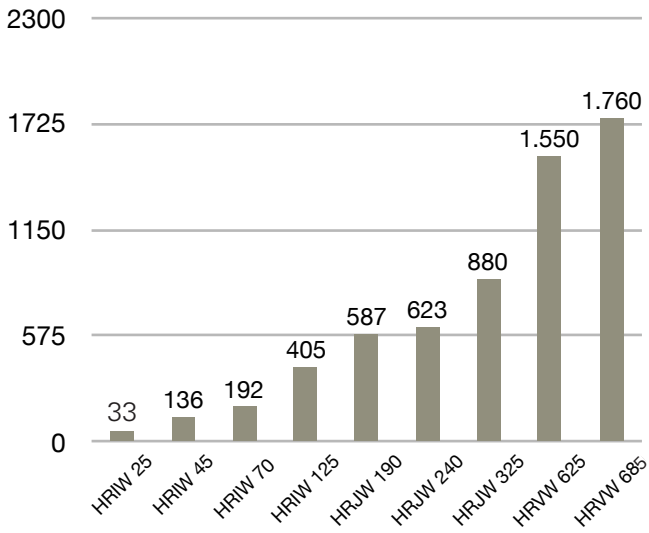
An AVR design to operate with the STAMFORD Permanent Magnet Generator (PMG) system is standard in our units. The AVR receives its power from a separately generated source, in the form of a small alternator mounted on the end of the main generator shaft. The advantage of this is that the AVR power source is not affected by sudden loads applied to the generator, hence the excitation field remains at full strength.

Alternator		HRIW 25	HRIW 45	HRIW 70	HRIW 125	HRJW 190	HRJW 240	HRJW 325	HRVW 625	HRVW 685
Model		S0L2-P1	UCI 224 D	UCI 224 F	UCI 274 E	UCI 274 G	UCDI 274 J	S4L1S-E4	HCI 534 E	HCI 534 F
Excitation		AUX	PMG	PMG	PMG	PMG	PMG	PMG	PMG	PMG
Automatic Voltage Regulator (+/-0.5%)		AS540	MX341	MX341	MX341	MX341	MX341	MX341	MX341	MX341
Insulation		Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H
Temperature Rise		Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)
skVA@30% voltage dip (480 volts)		48	185	258	580	730	840	1050	2070	2300

skVA@30% voltage dip (480 volts)

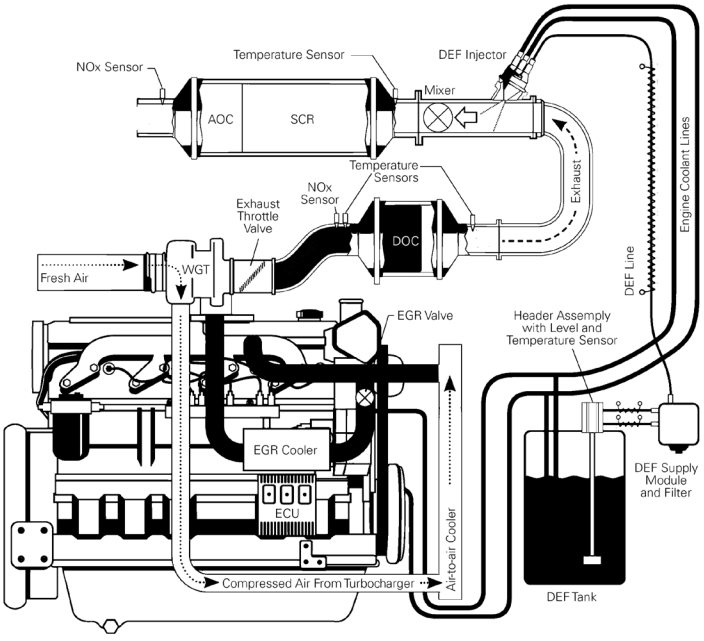


skVA@30% voltage dip (208 volts)



POWERFUL ENGINES

With leading fuel economy and performance while ensuring compliance with the latest emissions standards



Isuzu - Redtech Engines

Proven with over 26 Million Engines Worldwide, Isuzu Engines and Power Units are built to customer requirements with attention to details in fuel economy, environment, robustness and longevity. Redtech Engines with electronically controlled Hi-Pressure common rail fuel systems. Complete with DOC only or DOC and SCR in larger displacements without the need for a DPF.

John Deere - PowerTech PSL

John Deere PSL 6.8L, & 9.0L engines provide more power in a compact package. Featuring an optimized engine calibration, a 4-valve cylinder head, a high-pressure fuel system, full authority electronic controls, and series turbocharging consisting of a fixed geometry and wastegate turbocharger. Combining proven PowerTech Plus technology with a DOC and SCR system delivers excellent performance and fluid efficiency without the need for a DPF.

Volvo Penta - Tier 4 Final Technology

Volvo EPA Tier 4 Final certified engines maximize efficiency while delivering the power and reliability our customers demand. Volvo developed a simple Selective Catalytic Reduction (SCR) system together with light Exhaust Gas Recirculation (EGR). The Volvo Penta Tier 4 Final solution means less maintenance for customers, as well as better productivity and uptime.

All Power Units are tested and validated for HIPOWER SYSTEMS´ application by engine manufacturers.

SERVICEABILITY

REMOVABLE PANEL

Provides wide access for service to DOC + SCR, DEF INJECTOR AND DEF TANK.

LOW MAINTENANCE

Our high performance engines features a diesel oxidation catalyst (DOC) aftertreatment system, which is virtually maintenance-free.

DETACHABLE DOORS

All doors easily detachable to facilitate service.



Our Generators are engineered with focus on accessibility to make sure routine maintenance is quick and easy to perform.



DEF TANK
External access to DEF Tank filing cap.







1 DRAIN HOSES
Service Friendly Access to Engine Oil and Coolant Drain Hoses from the outside, equipped with lock-off valve.

2 DRAIN CELLS
Environmental Tank Basin and Fuel Tank Drain Cells.

3 MAINTENANCE KITS
HIPOWER SYSTEMS offers only original maintenance parts to extend generator life.

OPTIONALS



TRANSFORMER

Dry Sealed Buck &
Boost Transformer 1 Phase; 480 Pri.
V 120/240 Sec. V; 1kVA.



6A 10 BATTERY CHARGERS

UL and UL/C listed internal battery chargers rugged and dependable with waterproof enclosure.



BATTERY THERMAL WRAP

Designed for worry-free operation, the built-in thermostat (60–80 °F) prevents damage or spills caused by overheating.



PTC HEATER

PTC (Positive Temperature Coefficient) heater maintains the right temperature inside the control panel enclosure.



HYDRONIC HEATERS

Diesel fired heaters are able to warm up the engine in few minutes. Espar's and work independently of the engine.



OIL PAN HEATER

Provides an extra degree of weather protection making starting easier and warm-up quicker. Recommended where temperature falls below 32°F.



3 WAY FUEL VALVE KIT

Three-way fuel valve with quick-connect external couplers.



REMOTE FLEET MANAGEMENT

WebSupervisor is a cloud-based system designed for management of ComAp controllers via the internet.



HIGHWAY-RATED TRAILERS

Optional heavy duty DOT approved trailers with electric or hydraulic brakes.

DIMENSIONS AND WEIGHTS

HRIW-25



Dimensions skid L x W x H	88.6 x 37.4 x 62.1
Weight - Skid wet	2150
Dimensions w/Trailer L x W x H	146 x 70 x 80
Weight - w/Trailer wet	2578

HRIW-45



Dimensions skid L x W x H	88.6 x 37.4 x 62.1
Weight - Skid wet	2400
Dimensions w/Trailer L x W x H	146 x 70 x 80
Weight - w/Trailer wet	2828

HRIW-70



Dimensions skid L x W x H	110 x 42.6 x 68
Weight - Skid wet	3330
Dimensions w/Trailer L x W x H	175 x 76.8 x 92
Weight - w/Trailer wet	4600

HRIW-125



Dimensions skid L x W x H	124 x 51.6 x 72.8
Weight - Skid wet	6610
Dimensions w/Trailer L x W x H	207 x 83 x 92.8
Weight - w/Trailer wet	9110

HRJW-190



Dimensions skid L x W x H	145 x 54 x 84.4
Weight - Skid wet	8200
Dimensions w/Trailer L x W x H	225 x 88.2 x 103
Weight - w/Trailer wet	9760

HRJW-240



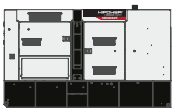
Dimensions skid L x W x H	145 x 54 x 84.4
Weight - Skid wet	8560
Dimensions w/Trailer L x W x H	225 x 88.2 x 103
Weight - w/Trailer wet	10120

HRJW-325



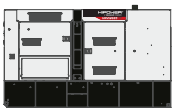
Dimensions skid L x W x H	161.4 x 63.4 x 99
Weight - Skid wet	11170
Dimensions w/Trailer L x W x H	240 x 102 x 123
Weight - w/Trailer wet	14110

HRVW-625



Dimensions skid L x W x H	200 x 81 x 112
Weight - Skid wet	18700
Dimensions w/Trailer L x W x H	347 x 102 x 152
Weight - w/Trailer wet	26160

HRVW-685



Dimensions skid L x W x H	200 x 81 x 112
Weight - Skid wet	19500
Dimensions w/Trailer L x W x H	347 x 102 x 152
Weight - w/Trailer wet	27700

* Weight varies depending on options chosen. Wet weights listed exclude fuel. Dimensions (Inches) | Weight (Pounds) | Frequency (60 Hz) | EPA Certified: Tier 4 Final. Specifications and designs are subject to change.

Performance		HRIW 25	HRIW 45	HRIW 70	HRIW 125	HRJW 190	HRJW 240	HRJW 325	HRVW 625	HRVW 685
Rated Prime Power 3ø	kW	20	36	56	100	152	192	260	500	550
Rated Standby Power 3ø	kW	22	40	62	110	167	211	286	550	625
Rated Prime Power 3ø	kVA	25	45	70	125	190	240	325	625	687
Rated Standby Power 3ø	kVA	28	50	78	138	209	264	358	680	756
3ø Voltage in 480V switch position (Series star w/neutral)	V	480/277	480/277	480/277	480/277	480/277	480/277	480/277	480/277	480/277
Amp Capacity @480V	A	30	54	84	150	228	289	391	752	826
3ø Voltage in 240-208V switch position (Parallel star w/neutral)	V	240/208	240/208	240/208	240/208	240/208	240/208	240/208	240/208	240/208
Amp Capacity @208V	A	69	125	194	347	527	666	902	1735	1906
Rated Prime Power 1ø	kW	19.9	34.4	50	84	115	150	185	n/a	n/a
Rated Prime Power 1ø	kVA	19.9	34.4	55	84	115	150	185	n/a	n/a
1ø Voltage in 120-240V switch position (Zig-Zag)	V	240/120	240/120	240/120	240/120	240/120	240/120	240/120	n/a	n/a
Amp Capacity @240V	A	82.1	143.3	208.3	350	479	625	770	n/a	n/a
Max. Sound Pressure Level (LPA) @23' @75% Load	dB(A)	63	65	65	72	72	72	74	72	72
ATB	°F / °C	122/50	122/50	120/49	113/45	127/53	122/50	122/50	113/45	113/45
Fuel consumption										
Fuel Tank Capacity	gal	80	80	118	150	130	130	449	600	600
Fuel consumption at full load (PRP)	gal / h	1.62	3.3	4.21	8.4	12.13	13.8	18.6	31.1	36.8
Fuel autonomy considering 90% of fuel capacity	h	41	25	28	20	10	9	22	19	18
DEF Tank Capacity	gal	N/A	N/A	7.4	7.4	11.9	11.9	29.8	42.3	42.3
Engine DEF Consumption [% of fuel consumption] @ P.R.P. Power	%	N/A	N/A	3	3	3.2	3.3	2.8	7.1	6.4
Alternator										
Model		S0L2-P1	UCI 224 D	UCI 224 F	UCI 274 E	UCI 274 G	UCDI 274 J	S4L1S-E4	HCI 534 E	HCI 534 F
Excitation		AUX	PMG	PMG	PMG	PMG	PMG	PMG	PMG	PMG
Automatic Voltage Regulator (+/-0.5%)		AS540	MX341	MX341	MX341	MX341	MX341	MX341	MX341	MX341
Insulation		Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H
Temperature Rise		Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)	Class F (105 /40oC)
skVA@30% voltage dip (480 volts)		48	185	258	580	730	840	1050	2070	2300
Engine										
Manufacturer		ISUZU	ISUZU	ISUZU	ISUZU	JOHN DEERE	JOHN DEERE	JOHN DEERE	VOLVO PENTA	VOLVO PENTA
Model		4LE2T	4LE2X	4JJ1X	4HK1X	6068HFG05	6068HFG06	6090HFG06	TWD1682GE	TWD1683GE
EPA certified		Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final
Nominal Power	HP	40.2	66	95	169	227	295	373	713	798
After-Treatment		DOC	DOC	DOC + SCR	DOC + SCR	DOC + SCR	DOC + SCR	DOC + SCR	SCR	SCR
Engine Electrical System										
Starting Motor Voltage	VDC	12	12	12	12	12	12	24	24	24
Battery Capacity - Min.	Amps	650	650	650	650	1050	1050	650 x 2	650 x 2	650 x 2
Battery Charging Alternator	Amps	110	110	110	110	110	110	65	N/A	N/A

Specifications and designs are subject to change.

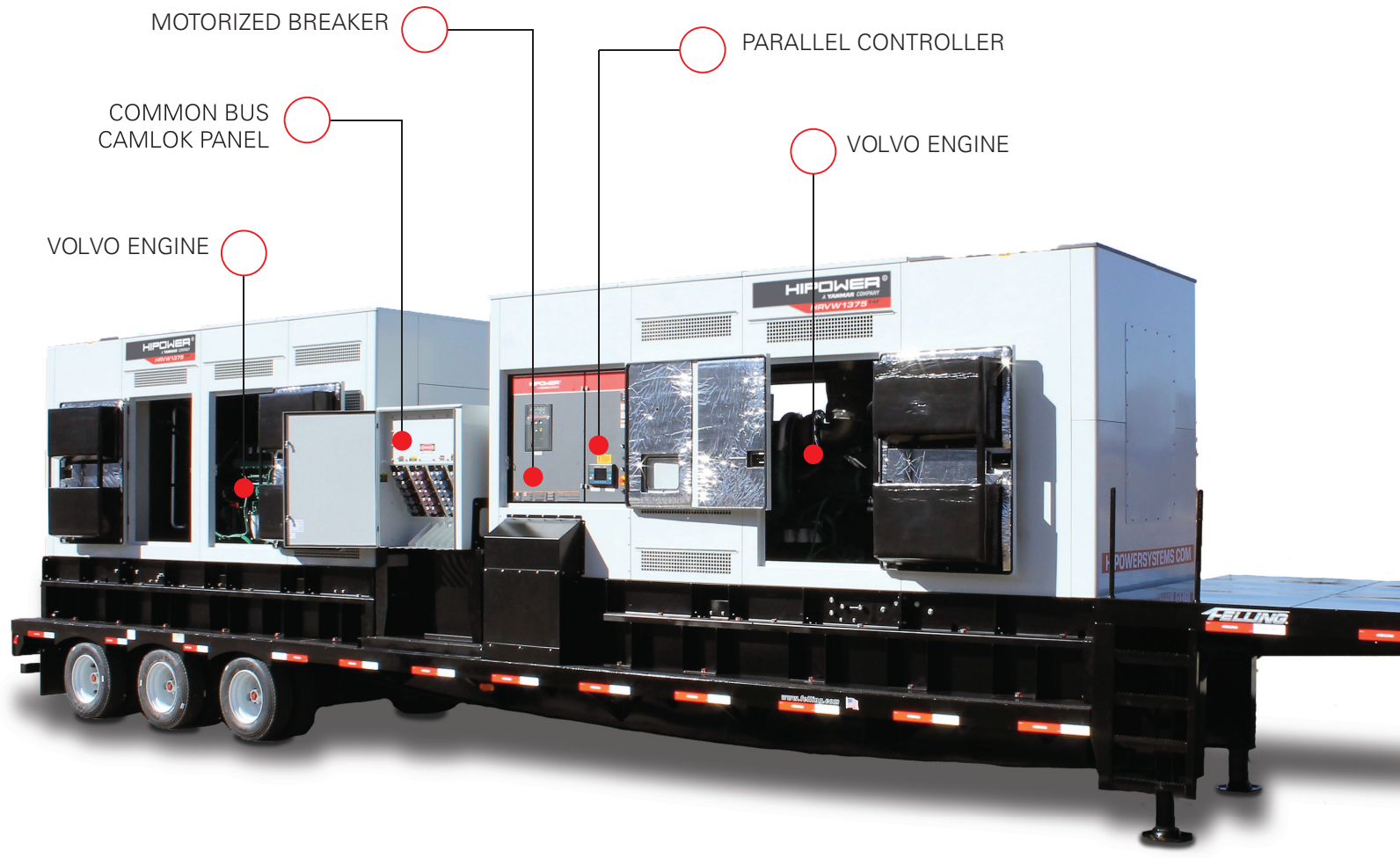
HIPOWER® A YANMAR COMPANY

TWIN-PACKS | HRVW-1250 & HRVW-1375 T4F

The TWIN-PACKS are 2 x 625 kVA (HRVW-1250) or 2 x 685 (HRVW-1375) units in parallel on a single trailer with a distribution panel already installed and part of the standard package.

Our diesels **HRVW-1250 and HRVW-1375** include the latest Tier 4 Final engines and are packed with a rich selection of standard features, digital control panel, distribution panel, camlock connectors, PMG, busk boost transformer, block heater and many more. They also offer a wide range of optional features to meet our customer's needs.

HIPOWER SYSTEMS is commited to delivering robust and reliable portable generators to the Power Generation Industry throughout North America. We stand behind every achine we make. That is why all our generators come with a **standard 2 year or 3500 hour** (whichever occurs first) parts and labor limited warranty.



STANDARD FEATURES

ENCLOSURE
- Rust-Proof Fastener with rubber washers to protect finish
- High Performance Sound-Absorbing Material
- Gasketed Doors
- Air Discharge Hoods for Radiators- Upward/Downward Pointing
- Lift Off Door Hinges
- Stainless Steel Lockable Handles
- Textured Polyester Powder Coat + Primer

ENGINE SYSTEM
- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Factory Filled Oil
- Battery Charging Alternator
- Fluid Containment Pan
- 120V-1ph Water Jacket Heater (w/ Std. Isolation Valves)

ELECTRICAL SYSTEM
- Battery
- Battery Cables
- Battery Tray

ALTERNATOR SYSTEM
- 12 Leads (3-Phase, Non 600V)
- Class H Insulation Material
- Vented Rotor 2/3 Pitch
- Full Load Capacity Alternator
- Protective Thermal Switch
- Permanent Magnet Excitation

COOLING SYSTEM
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

GENERATOR SET
- Parallel Controller w/Motorized CB
- 80% Rated Main Line Circuit Breaker
- Separation of Circuits - Multiple Breakers (Load Center)
- Separation of Circuits - High/ Low Voltage
- Internal Genset Vibration Isolation
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Yrs./3,500 Hrs. Limited Warranty
- Emergency Stop

CONFIGURABLE OPTIONS

ENGINE SYSTEM
- Anti-Condensation Heater

ELECTRICAL SYSTEM
- Battery Blanket
- 10A Battery Charge
- Variable Speed Fan
- 5A Battery Charger
- AC/DC Enclosure Lighting Kit w/ Timer
- Control Panel Heater
- Centralized Display Panel

GENERATOR SET
- Extended Factory Load Testing

ENGINEERED OPTIONS

GENERATOR SET
- Tropical Coating

GENERATOR SET
- Special Testing

Performance	Units	HRVW1250	HRVW1375
Rated standby power 1ø	kW	N/A	N/A
Rated PRP/Standby power 3ø	kW	1000/1100	1100/1210
Rated PRP/Standby power 3ø	kVA	1250/1360	1375/1512
Amp capacity @208V	A	3468	3816
Amp capacity @480V	A	1504	1654
Amp capacity @600V	A	1204	1323
Max. sound pressure level @100% Load	dB(A)	72	72
Ambient Temp Capability	°F / °C	113/45	113/45

Stamford Alternator	Units	
Model (480V) for HRVW1250 Model (480V) for HRVW1375		HCI534E w/PMG HCI534F w/PMG
Automatic voltage regulator (+/-1%)		MX341 AVR
Insulation		Class H
Temperature Rise	°F / °C	105/40

Dimensions and Weight		Enclosure Set
Dimensions (L x W x H)	Inches	576" x 102" x 152"
HRVW1250 - Weight HRVW1375 - Weight	lbs. lbs.	51,500 52,800

Engine	Units	
Manufacturer		VOLVO PENTA
Model for HRVW1250 Model for HRVW1375		TWD 1682 GE TWD 1683 GE
EPA Certified		TIER 4 FINAL
Nominal Power (1250) Nominal Power (1375)	HP	796 811

*Specifications and designs are subject to change. Estimate weight; actual weight varies depending on options selected.

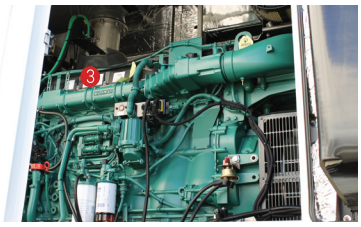




1. Common buss-bar connection cabinet with camlock
2. Convenient shore power box with paralleling connections
3. VOLVO Engine
4. Parallel Controller
5. Motorized Breaker







MANUFACTURING EXCELLENCE

NEW FACILITY

We have invested millions in our new (2018) state of the art 515,000 sf. North American Manufacturing Facility, headquarted in Olathe, Kansas, to better serve our customers.

SHEET METAL

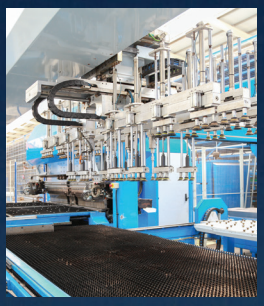
Our new fully integrated Industry 4.0 Prima Power Robot (night train, laser, punching, shearing, buffering & bending) provides us with the latest available technology to manufacture all our sheet metal components.

POWER PAINT SYSTEM

Incorporating the newest nanotechnology in metal pre-treatment washing, our new powder paint systems applies 2 coats of powder protection (primer & paint) to provide heavy-duty durability in the harshest conditions.

MANUFACTURING

Our entire manufacturing engineering processes and quality systems are based on Yanmar's Way of Kaizen Principles. This allows us to deliver an industry leading finished product.









BUILT TO LAST

HIMOINSA POWER SYSTEMS, INC.
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Email: sales@ hipowersystems.com

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