



T4F PORTABLE POWER

RE-DESIGNED, ENGINEERED AND BUILT IN THE USA

HIPOWER[®]
A YANMAR COMPANY

Hipower Systems' Portable Generators


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

A wide range from **25 to 680 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 equipped with door stoppers / holders to facilitate service operations



Environmental Fuel Tanks

Hipower 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*

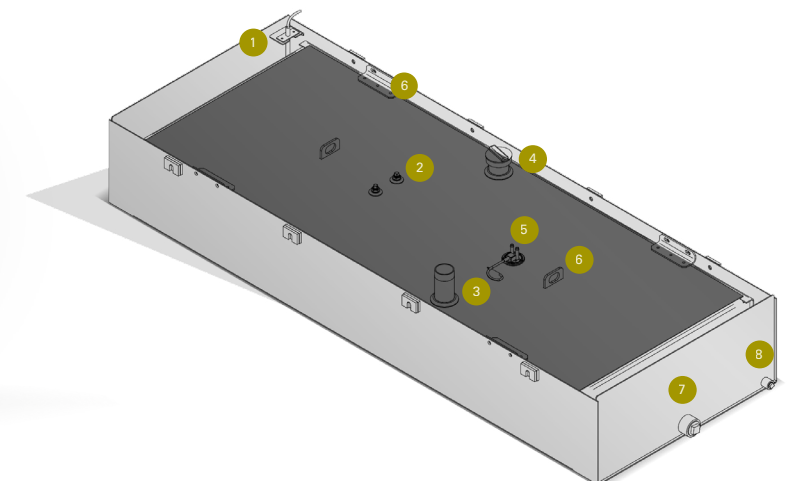
- 1 LEAKAGE DETECTOR

5 FUEL LEVEL SENSOR
- 2 FUEL TANK PORTS

6 LIFTING HOOK
- 3 ADDITIONAL FUEL TANK VENTS

7 BASIN DRAIN CELL
- 4 FUEL FILLER CAP

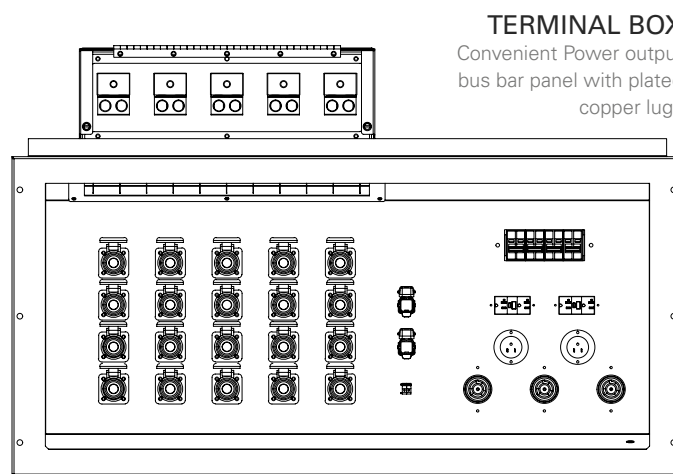
8 TANK DRAIN CELL



Wide Access Generator Control Panel



- 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-625-680	2000	-	3	2	5 pole

CCP panels sizes and features

IntelliLite MRS 16

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

IntelliVision 5

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



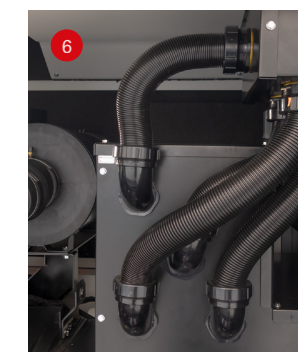
Clean Electrical Arrangement with Labeled wires to meet Electrical and Safety Codes

- 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 standard HRIW-125 and above
- 4 USB PORT**
Export/import trends, history, archive of controller and IntelliVision 12Touch firmware and others to USB stick

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

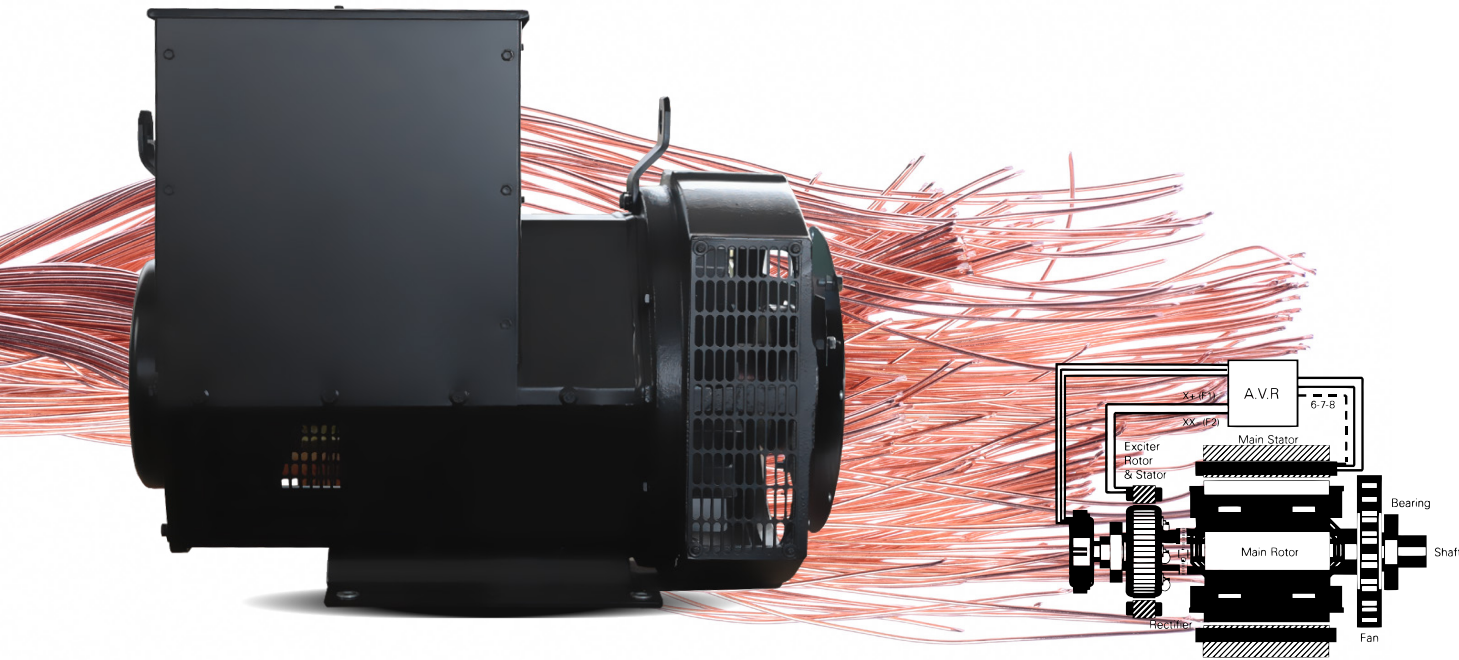
- 6 ISOLATED CONDUITS**
High Quality electrical conduit for water resistance for each set of phase wires between alternator and control panel

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



Solid Alternators

A powerful alternator is a must when powering critical jobs



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, sustaining a high level of short circuit current at the generator output terminals.

Better Generator Performance

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

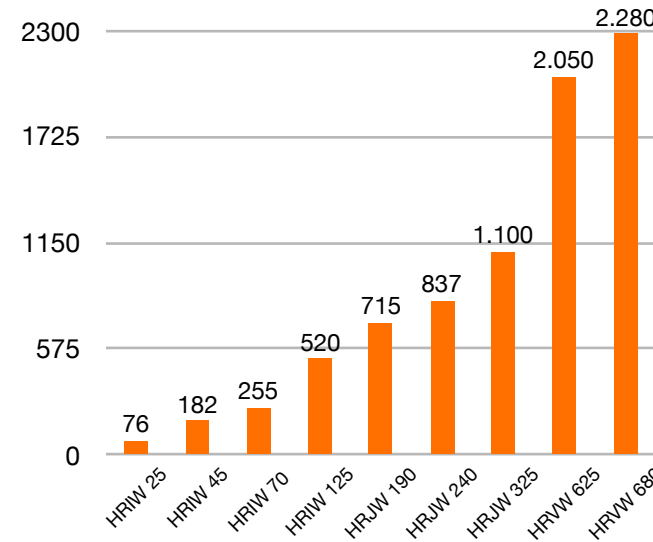
The resistance of the winding is a function of temperature of the winding. For a Class F insulated, 1.0 S.F. motor, if we add the NEMA allowable rise of 105°C to the reference ambient temperature (40°C), results in the motor having an operating temperature of (105+40)=145°C

AVR MX341

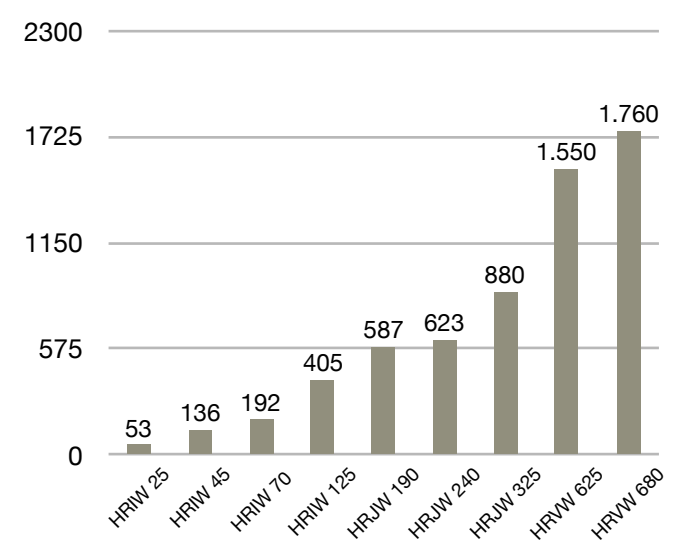
The MX341 achieves voltage regulation in the order of plus and minus 1.0 %, through the use of the PMG system. Protection against sustained over-excitation is standard on this AVR, as is a special engine relief load acceptance feature which enables full load to be applied in a single step

	HRIW 25	HRIW 45	HRIW 70	HRIW 125	HRJW 190	HRJW 240	HRJW 325	HRVW 625	HRVW 680
Alternator									
Model	PI 144 F	UCI 224 D	UCI 224 F	UCI 274 E	UCI 274 G	UCDI 274 J	HCI 434 E	HCI 534 E	HCI 534 F
Excitation	EBS	PMG	PMG	PMG	PMG	PMG	PMG	PMG	PMG
Automatic voltage regulator (+/-0.5%)	AS480	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 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)
skVA@30% voltage dip (480 volts)	68	184	260	580	740	840	1100	2070	2300

skVA@30% voltage dip (480 volts)

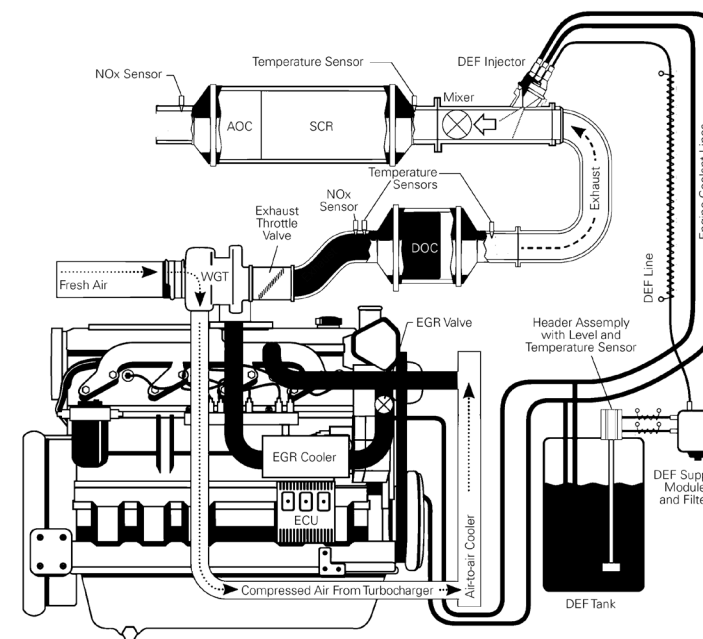


skVA@30% voltage dip (208 volts)



Powerful Engines

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



Redtech Engines

Isuzu

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

PowerTech PSL

John Deere

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

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

DEF TANK

External access to DEF Tank filling cap

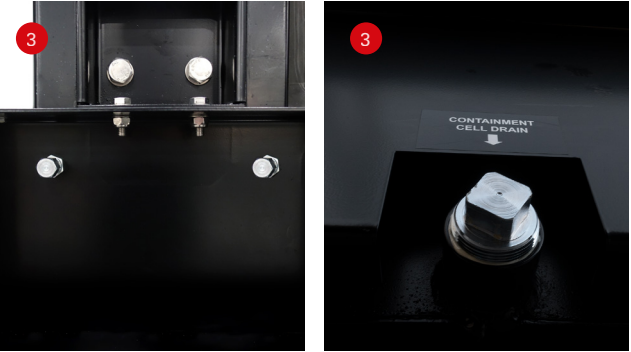
LOW MAINTENANCE

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



3 DRAIN HOSES

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

3 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



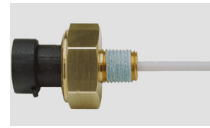
PTC HEATER

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



LOW COOLANT SENSOR

Designed and installed to ensure the right coolant level presence in the radiator (Standard feature on John Deere, optional on Isuzu)



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	151 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	183 x 80 x 92.8
Weight - w/Trailer wet***	9110

HRJW-190



Dimensions skid L x W x H	145 x 54 x 82.4
Weight - Skid wet***	8200
Dimensions w/Trailer L x W x H	222 x 88.2 x 103
Weight - w/Trailer wet***	14400

HRJW-240



Dimensions skid L x W x H	145 x 54 x 82.4
Weight - Skid wet***	8560
Dimensions w/Trailer L x W x H	222 x 88.2 x 103
Weight - w/Trailer wet***	14760

HRJW-325



Dimensions skid L x W x H	161.4 x 63.4 x 99
Weight - Skid wet***	14440
Dimensions w/Trailer L x W x H	255 x 102 x 129
Weight - w/Trailer wet***	16640

HRVW-625



Dimensions skid L x W x H	197 x 83 x 105
Weight - Skid wet***	18700
Dimensions w/Trailer L x W x H	310 x 102x 140
Weight - w/Trailer wet***	26900

HRVW-680



Dimensions skid L x W x H	197 x 83 x 105
Weight - Skid wet***	19500
Dimensions w/Trailer L x W x H	310 x 102x 140
Weight - w/Trailer wet***	27700

HRIW 25 HRIW 45 HRIW 70 HRIW 125 HRJW 190 HRJW 240 HRJW 325 HRVW 625 HRVW 680

Performance

Rated prime power 3ø	kW	20	36	56	100	152	192	260	500	550
Rated standby power 3ø		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		27.5	50	78	138	209	264	358	680	780
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	229	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	1907
Rated prime power 1ø	kW	17	35	50	84	115	150	185	n/a	n/a
Rated prime power 1ø	kVA	17	35	50	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	v/a
Amp capacity @240V	A	71	146	208	350	479	625	771	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	1.75	2.89	4.21	7.54	12.1	13.8	18.6	33.5	37.4
Fuel autonomy considering 90% of fuel capacity	h	41	25	25	18	10	9	22	16	14

Alternator

Model	PI 144 F	UCI 224 D	UCI 224 F	UCI 274 E	UCI 274 G	UCDI 274 J	HCI 434 E	HCI 534 E	HCI 534 F
Excitation	EBS	PMG	PMG	PMG	PMG	PMG	PMG	PMG	PMG
Automatic voltage regulator (+/-0.5%)	AS480	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 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)	Class F (105 /40° C)
skVA@30% voltage dip (480 volts)	76	182	255	520	715	837	1100	2050	2280

Engine

Manufacturer	ISUZU	ISUZU	ISUZU	ISUZU	JOHN DEERE	JOHN DEERE	JOHN DEERE	VOLVO PENTA	VOLVO PENTA	
Model	4LE2T	4LE2X	4JJ1X	4HK1X	6068HFG05	6068HFG06	6090HFG06	TWD1672GE	TWD1673GE	
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	32	56	83	149	227	286	399	724	809
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
Cold Cranking Amps - minimum	Amps/ Hour	53	78	78	102	150 x 1	150 x 1	430 x 2	430 x 2	430 x 2
Battery charging Alternator	Amps	110	110	110	110	65	65	65	65	65

HRVW-625 / 680 final specifications are subject to change. | Specifications and designs are subject to change. Weight varies depending on options chosen. | Dimensions (Inches) | Weight (Lbs) | Frequency (60 Hz) | EPA Certified: TIER 4 FINAL |

MANUFACTURING EXCELECE

New Facility

We have invested millions in our new (2018) state of the art 515,000 sf North American manufacturing facility and headquarters in Olathe, Kansas, to better serve our customers.

Sheet Metal

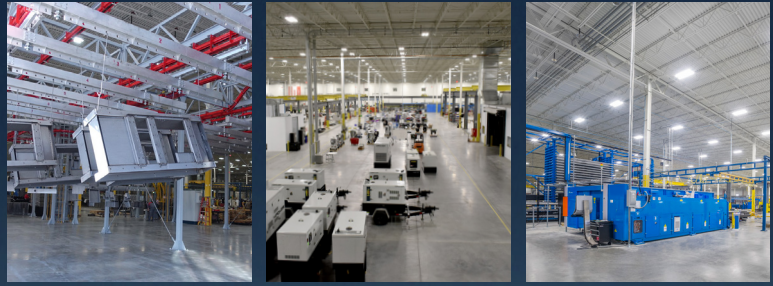
Our new fully integrated Industry 4.0 Prima Power robot (night train, laser, punching, shearing, buffering & bending) provides us with the latest available technology to manufacture all of our sheet metal components.

Powder Paint System

Incorporating the newest nanotechnology in metal pretreatment washing, our new powder paint system 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 system are based on Yanmar's Way of Kaizen principles. This allows us to deliver an industry leading finished product.



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