HIPOWER rental generators are an efficient, reliable and versatile source of power designed to operate in the most extreme working conditions. An unique combination of innovative materials and design features combine for easy user operation and dependable power you can rely on.

- The Genset features a heavy-duty John Deere 4 cycle diesel engine certified by the Environmental Protection Agency (EPA) to conform to Tier 3 non-road emissions regulations, an AC high capability alternator regulated by a precise Automatic Voltage Regulator controlled and protected by our own auto-start CEM7 control panel available CANBUS communications including a powerful microprocessor and easy user programming. A heavy-duty constructed chassis supports the complete set. The generator is protected by a best-in-class sound attenuated enclosure designed for durability and extreme application.

- Engine - generating set tested to ISO 8528-5.
- The Genset engine is certified by the Environmental Protection Agency (EPA) Tier 3 non-road emissions regulations.
- The brushless, single bearing, 4 poles, 12-wire generator end, with automatic voltage regulator has broad range reconnectability.
- The Genset is CSA certified.
- Global product support.
- Operations and maintenance manuals.
- 1 Year Standard Warranty. Extended warranties are also available.
Standard features

Engine
- Industrial grade Tier 3 John Deere diesel Engine, 4 stroke, water cooled, provided with:
  - Electric start 12V. (24V optional)
  - Radiator with pusher fan.
  - Standard water separator visible level fuel filter.
  - Secondary water separator fuel filter.
  - J1939 stop the engine with ECU John Deere.
  - Electronic engine governor.
  - HWT/LOP senders.
  - Heavy duty 2-stage air filter with service indicator.
  - Hot & rotating components (exhaust, fan…) protections and radiator guards.
  - Oil drain hand pump
  - Spin type fuel and oil filters.

Alternator
- Self excited, self regulated alternator.
- Insulation class H, IP23 Protection.
- Automatic Voltage Regulator (AVR) (+/-1%).
- Vacuum impregnation.
- Permanent Magnet Generator (PMG).

Control Panel
- Digital microprocessor based control panel with remote start capability.
- CEM7 Auto-start control panel (2 wires).
- Engine protections: High coolant temperature [A], High coolant temperature by sensor [W], Low engine temperature by sensor [W], Low oil pressure[A], Low coolant level[A], Unexpected shutdown, Fuel level[W], Stop failure, Battery voltage failure[W], Battery charging alternator failure[W], Overspeed[A], Underspeed[A], Start failure, Emergency stop.
- Alternator protections: Over frequency [A], Under frequency [A], Over voltage [A], Under Voltage [A], Short-circuit [A], Unbalanced voltage [A], Incorrect phase sequence [A], Reverse power [A], Overload [A].
- Genset readings: Voltage among phases, Voltage among phases and neutral, Amperage, Frequency, Apparent power(kVA), Active power (kW), Reactive power (kVAR), Power factor.
- Engine readings: Fuel level(%), Battery voltage, R.P.M, Battery charge alternator voltage, Coolant temperature[W], Oil pressure[1].
- Digital Metering: Total hour counter, Partial hour counter, kW meter, Starts valid and Starts failure counters, Maintenance.
- Communications (serial): CANBUS - J1939 converter.
- Other features: Alarms history, External start, Start inhibition, Start under EJP normative, Pre-heating engine control, Genset contactor activation, Fuel transfer control, Engine temperature control, Manual Override, Programmable alarms, Genset start function in test mode, Programmable outputs, Magnetic Pick-up control.
- Multilingual capability
- Remote Communications to our RAM7 Remote Annunciator Module (optional).
- NFPA110 Level Compatible.
- On/Off Switch.
- Emergency Stop Button.

NOTES:
★ All the protections are programmable to carry out “Warning Alarm without engine stop” or “Alarm with Engine Stop (with or without cooling cycle)”.
★ [1] Sensor installation necessary

Himoinsa Power Systems, Inc - 16210 West 110th Street, Lenexa, KS 66219 - Tel: 913-495-5557 - Fax: 913-495-5575 • www.hipowersystems.com
Standard features

Power Panel
- 3P Main Line Circuit Breaker for overload protection (UL listed)/ CSA 22.2).
- Main bus / Hardwire connection panel with safety protection. (open thermal magnetic protection and alarm).
- Battery disconnect switch.
- Fuel cut-off solenoid and safety switches.

Control Panel BOX
- Auxiliary socket box IP67, with individual breaker protection and 2 GFCI DUTPEX 20A 125VGFI for 110v duplex and 3 TWIST-LOCK 50A 2P+N+G.
- Direct access to auxiliary sockets with suitable protection.
- Voltage selector switch. Lockable, with 3 positions (3phase 277/480V - 3phase 120/208V - 1phase 120/240V).

Electric Equipment
- Battery charging alternator.
- Gel type, heavy-duty Starting battery(s) installed and connected to the engine include cables and rack.
- Ground connection prepared for ground spike (not supplied).

Chassis
- Heavy duty skid base with forklift pockets and drawbars.
- Extended run time high capacity fuel tank.
- 110% spill containment for engine oil, coolant and fuel spills.
- Easy access for chassis cleaning and fast draining of fuel tank.

Enclosure
- Heavy duty sound attenuated canopy made with high quality 11 gauge steel.
- Powder coat paint which exceeds 1,000 hour salt spray test.
- Stainless steel hardware and fasteners.
- Ultra silent all weather enclosures with Rock-Wool insulation and curved edges with minimum outside fasteners.
- Reinforced Single eye lifting point.
- Fuel tank external filling system (lockable filler cap).
- Emergency stops (double protection for emergency stop; inside on control panel + external on canopy).
- Door with window to view control panel.
- Easy access to radiator fill through roof on enclosure.
- Outlet for power cables.
- Recesses provision for quick release couplings (external fuel supply).

Exhaust
- Steel residential silencer of -35dBA attenuation, with rain cap.

Model: HRJW 115 T6
Optional features

**Engine (optional)**
- Water Jacket Heater
- Low coolant level sensor.
- Secondary water separator fuel filter - RACOR type (Decanting filter with water detection kit, alarm signal and sensor contact).
- Heavy duty, three stage air filter with service indicator.

**Alternator (optional)**
- Anti-condensation heater.

**Electric Equipment (optional)**
- Battery isolator.
- Automatic battery chargers.

**Power Panel (optional)**
- MPS - Multiple Parallel System.
- Multiple genset paralleling in three different voltages. (120/240 1Ph, 120/208V 3Ph or 277/480V 3Ph) achieved through the voltage selector switch.

**Control Panel BOX (optional)**
- Camlocks.

**Electronics (optional)**
- Remote Annunciator Module RAM7 to meet NFPA 110 installation.
- Digital timer.
- CANBUS - LAN, converter.
- CANBUS - USB, converter.
- Communication modules for tele-control.
- Transfer switch and MPS paralleling control panel.

**Chassis (optional)**
- Leakage detector sensor.

**Fuel System (optional)**
- Three way fuel valve with quick disconnect fittings.
- Automatic fuel transfer pump.

**Trailers (optional)**
- Road towing trailers to DOT standards.
**ENGINE SPECIFICATIONS**

- **Manufacturer**: JOHN DEERE
- **Engine model**: 4045HF285 -118
- **EPA Certification for**: Stage Tier 3
- **Rated RPM**: 1800
- **Nominal Power (PRIME)**: kW - HP 107 - 144
- **Nominal Power (STANDBY)**: kW - HP 118 - 158
- **Engine type**: Diesel 4 stroke
- **Injection type**: UNIT INJECTION
- **Aspiration type**: TURBOCHARGED
- **Cylinder arrangement**: 4 - L
- **Bore and stroke (mm) - In**: (106 x 127) 4.19 x 5.00
- **Displacement**: L - in³ 4.5 - 275
- **Cooling system**: Liquid (water+50%paraffin11)
- **Governor Type**: electronic
- **Make**:
- **Standard**:
- **Starting voltage**: Vcc 12
- **Air cleaner type**: Medium duty w/double cartridge
- **Compression ratio**: 19.0 : 1

**ALTERNATOR SPECIFICATIONS**

- **Manufacturer**: Stamford
- **Model (480V)**: UCI 274 D
- **Alternator Type**: 4 poles, rotating field
- **Excitation system**: Exciter Type PMG
- **Leads: quantity, type**: 12, reconnectable
- **Stator Pitch**: 2/3
- **Insulation system**: Material Class H
- **Temperature rise**: 150ºC Standby
- **Bearing: quantity, type**: Single bearing sealed
- **Coupling**: Flexible disc
- **Amortisseur windings**: Full
- **Automatic Voltage regulator**: PMG regulator or EBS MX341, Opt MX321
- **Voltage regulation, no load to full load**: PMG regulator +/-1%, +/- 0.5%
- **Load acceptance**: 100% of rated standby current
- **Unbalanced load capability**: 20% of standby rating
- **Subtransient Reactance**: 480V 12%
- **TIF**: <50
- **Line Harmonics**: 5% Maximum
- **Peak motor starting kVA**: 480V 30% dip
- **PMG excited MX series- 520kVA**

**AMPERAGE**

- **1 Phase 120V**: 2x328 Amps
- **1 Phase 240V**: 328 Amps
- **3 Phase 208V**: 316 Amps
- **3 Phase 240V**: 277 Amps
- **3 Phase 480V**: 138 Amps
- **Main Line Circuit Breaker Rating**: 400 Amps

---

**GENSET RATING**

<table>
<thead>
<tr>
<th>GENSET Model</th>
<th>ENGINE Model</th>
<th>ALTERNATOR Model</th>
<th>VOLTAGE L-L</th>
<th>Ph</th>
<th>Hz</th>
<th>150ºC RISE STANDBY RATING</th>
<th>125ºC RISE PRIME RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRJW 115 T6</td>
<td>4045HF285 - 118</td>
<td>UCI 274 D</td>
<td>120</td>
<td>1</td>
<td>60</td>
<td>kW</td>
<td>kVA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>240</td>
<td>1</td>
<td>60</td>
<td>63</td>
<td>79</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>208</td>
<td>3</td>
<td>60</td>
<td>100</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>240</td>
<td>3</td>
<td>60</td>
<td>101</td>
<td>126</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>480</td>
<td>3</td>
<td>60</td>
<td>101</td>
<td>126</td>
</tr>
</tbody>
</table>
**EXHAUST SYSTEM**

<table>
<thead>
<tr>
<th>PRIME</th>
<th>STANDBY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exhaust manifold type</strong></td>
<td>Dry</td>
</tr>
<tr>
<td><strong>Exhaust outlet diameter</strong></td>
<td>mm - ln</td>
</tr>
<tr>
<td><strong>Sound Attenuated version</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Max. Exhaust temp. at full load</strong></td>
<td>ºC</td>
</tr>
<tr>
<td></td>
<td>ºF</td>
</tr>
<tr>
<td><strong>Exhaust Gas Flow</strong></td>
<td>kg/h - Lb/h</td>
</tr>
<tr>
<td></td>
<td>(m³/min) - ft³/min</td>
</tr>
<tr>
<td><strong>Evacuated by the exhaust heat</strong></td>
<td>kcal/kWh</td>
</tr>
<tr>
<td><strong>Maximum allowed back pressure</strong></td>
<td>(mm/H₂O) - inH₂O</td>
</tr>
<tr>
<td></td>
<td>(kPa) - inH₂O</td>
</tr>
</tbody>
</table>

**COOLING SYSTEM**

<table>
<thead>
<tr>
<th>PRIME</th>
<th>STANDBY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine cooling air flow</strong></td>
<td>m³/s - ft³/s</td>
</tr>
<tr>
<td><strong>Generator cooling air flow</strong></td>
<td>m³/min - ft³/min</td>
</tr>
<tr>
<td><strong>Total cooling air flow (engine + generator + combustion)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Sound Attenuated version</strong></td>
</tr>
<tr>
<td><strong>Total cooling capacity</strong></td>
<td>l - gal</td>
</tr>
<tr>
<td><strong>Antifreeze recommended</strong></td>
<td>l - gal</td>
</tr>
</tbody>
</table>

**LUBRICATION SYSTEM**

<table>
<thead>
<tr>
<th>PRIME</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended Oil</strong></td>
</tr>
<tr>
<td><strong>Oil Filter: quantity, type</strong></td>
</tr>
<tr>
<td><strong>Oil pan capacity</strong></td>
</tr>
<tr>
<td><strong>Oil pan capacity with filter</strong></td>
</tr>
<tr>
<td><strong>Oil cooler</strong></td>
</tr>
<tr>
<td><strong>Recommended Oil</strong></td>
</tr>
<tr>
<td><strong>Specific oil consumption full load</strong></td>
</tr>
<tr>
<td><strong>Oil Press</strong></td>
</tr>
</tbody>
</table>

**VENTILATION REQUIREMENTS**

<table>
<thead>
<tr>
<th>PRIME</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air requirement for combustion at 100% load/rated speed</strong></td>
</tr>
<tr>
<td><strong>Cooling airflow</strong></td>
</tr>
<tr>
<td><strong>Heat rejected to ambient:</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Control Panel BOX

1. Auxiliary socket box IP67 with:
   ✓ Individual breaker protection for sockets
   ✓ 2 GFCI duplex 20A 125VGFI for 110v duplex
   ✓ and 3 TWIST-LOCK 50A 2P+N + G

Optional features
Control Panel BOX

1. Camlocks
Voltage Selector Switch

1. Voltage selector switch 3 positions padlockable
   (12h / 09h / 03h).
   ✓ High (Series) Wye 480/277V 3Ph Y.
   ✓ Low (Parallel) Wye 208/120V 3Ph YY.
   ✓ Low (Parallel) Zig Zag 240/120V 1Ph ZZ
2. 7 contact stages, 14 contacts.
3. Switching angle 90°.

AC Generator Starter Widing connected for 2Phase
+Neutral Parallel Zig-Zag: 120/240 VAC 60Hz

![Diagram of Voltage Selector Switch]
CEM7 Auto-start control panel

1. Voltage between each Phase & Neutral.
2. Voltage between Phases.
3. Current (Amps) on each Phase.
4. Frequency.
5. Active, Apparent & Reactive Power.
6. Power Factor.
7. Instant Power (kWh) and Accumulative power 
   (day, month & year).
9. Oil pressure, coolant temperature.
10. Battery voltage.
11. Battery charging alternator voltage.
12. Engine Speed.
13. Hours running (total & partial).

Engine Alarms

1. High coolant temperature (A).
2. Low oil pressure (A).
3. Low coolant level (A).
4. Unexpected shutdown.
5. Low fuel level (W).
7. Battery voltage failure (W).
8. Battery charging alternator failure (W).
11. Start failure.
12. Emergency stop.

Generators Alarms

1. Over-load (A).
2. Unbalanced voltage (A).
3. Over voltage (A).
5. Over frequency (A).
6. Under frequency (A).
7. Short-circuit (A).
9. Incorrect phase sequence (A).

NOTES:

★ All the protections are programmable to carry out “Warning Alarm without engine stop” or “Alarm with Engine Stop (with or without cooling cycle)”.
★ (A) Alarm with Engine Stop.
★ (W) Warning Alarm without Engine Stop.
★ (1) Sensor installation necessary.
## Industrial Rental Towable Generator

**Model: HRJW 115 T6**

### Enclosure model DR10

<table>
<thead>
<tr>
<th>(Length x Width x Height)</th>
<th>in</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall size (L x W x H)</td>
<td>100.7 x 45.3 x 81</td>
<td>2810 x 1150 x 2059</td>
</tr>
<tr>
<td>Dry weight (with std. accessories)</td>
<td>Lb</td>
<td>Kg</td>
</tr>
<tr>
<td></td>
<td>4690</td>
<td>2125</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(Length x Width x Height)</th>
<th>in</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trailer size (L x W x H)</td>
<td>180 x 77 x 14</td>
<td>4572 x 1955 x 355</td>
</tr>
<tr>
<td>Trailer weight</td>
<td>Lb</td>
<td>Kg</td>
</tr>
<tr>
<td></td>
<td>975</td>
<td>445</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Gal</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>211.3</td>
<td>800</td>
</tr>
</tbody>
</table>

### Fuel Tank Capacity

<table>
<thead>
<tr>
<th>Run Time (Hr)</th>
<th>100%</th>
<th>75%</th>
<th>50%</th>
<th>25%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>28</td>
<td>35.1</td>
<td>49</td>
<td>92</td>
</tr>
</tbody>
</table>

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**NOTE:** The drawings are only representative of the overall dimensions. For full detailed drawings please consult your local distributor or contact Himoinsa Power Systems [www.hipowersystems.com](http://www.hipowersystems.com).

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