



Yanmar RENTAL SERIES

| Power Range | kW | kVA |
|-------------|---------|-----------|
| Standby | 33 - 23 | 41.3 - 23 |
| Prime | 28 - 23 | 35 - 33 |

MODEL: HYW - 35R

STANDARD EQUIPMENT

- | | |
|--|--|
| <ul style="list-style-type: none"> ■ Heavy duty steel, fully sound-attenuated enclosure ■ Powder Painted with finish that exceeds 1000-hr salt test ■ Fired-proof Rock wool insulation ■ Key Lockable doors ■ Fuel tank with full spill containment ■ Single lifting point ■ Stainless steel hardware ■ Residential muffler built into enclosure ■ Oil drain pump | <ul style="list-style-type: none"> ■ Dry type air-cleaner, fuel filter, and lube oil filter ■ 65 dBA at 23 feet @ full prime load ■ 12 volt starter motor and charging alternator ■ Battery, battery rack, and cables ■ Digital auto start control panel (see page 4) ■ 3 position voltage selector switch ■ Twist lock and duplex receptacles with GFI ■ Adjustable Main line circuit breaker ■ Class H, brushless Newage alternator |
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OPTIONAL EQUIPMENT

- | | |
|---|--|
| <ul style="list-style-type: none"> ■ Road towing trailers to DOT standards ■ Double wall Sub-base fuel tanks in lieu of standard ■ Oil Field Skid base for dragging ■ Sensor for leakage inside containment base ■ 2 way valve for quick connection to external fuel source ■ Different colors for volume orders. (Standard color is Off-white paint) ■ Extended warranty period | <ul style="list-style-type: none"> ■ Automatic battery charger 6 amps ■ Water Jacket heater ■ Kw readings ■ GPS for mobile sets ■ Electronic engine governor ■ Anti-condensation heater in generator |
|---|--|

GENERATOR RATING

| Alternator | Voltage | Ph | Hz | Standby Rating | | Prime Rating | |
|------------------------|-----------|----|------|----------------|------|--------------|------|
| | | | | kW/kVA | Amps | kW/kVA | Amps |
| BCI 184G | 120 / 208 | 3 | 60 | 31 / 38.8 | 108 | 28 / 35 | 97 |
| | 277 / 480 | 3 | 60 | 33 / 41.3 | 50 | 30 / 37.5 | 45 |
| | 120 / 240 | 3 | 60 | 31 / 38.8 | 93 | 28 / 35 | 84 |
| | 120 / 240 | 1 | 60 | 23 / 23 | 96 | 23 / 23 | 96 |
| | | HP | KW | SKVA | | | |
| Maximum Motor Starting | | 15 | 11.2 | 94.5 | | | |

Motor starting is based on a 35% voltage dip at 480VAC 3Ph 60hz with a code G motor

Application Data GEHWY-35R

| Alternator Specifications | | Engine Mechanical Specifications | |
|--|--|--|------------------------------|
| Manufacturer | Newage Stamford | Manufacturer | Yanmar |
| Type | 4-pole, rotating field | Engine model | 4TNV98 |
| Exciter type | Brushless, self excited. | Engine type | 4-cycle, Naturally aspirated |
| Leads: quantity, type | 12, reconnectable | Cylinder arrangement | 4 in line |
| Voltage regulator | Solid state, volts/Hz and excitation overload protection | EPA Certification : | TIER 2 |
| Insulation: | | Displacement, L (cu. in.) | 3.32 (203) |
| Material..... | Class H | Bore and stroke, mm (in.) | 98 x 110 (3.86 x 4.33) |
| Temperature rise..... | 150° C , standby | Compression ratio | 18.5 : 1 |
| Bearing: quantity, type | Single bearing sealed | Piston speed, m/min. (ft./min.) | 395.9 (1299) |
| Coupling | Flexible disc | Main bearings: quantity, type | 5, replaceable insert |
| Amortisseur Windings | Full | Rated rpm | 1,800 |
| Voltage regulation, no-load to full load | ± 1.5% | Max. power at rated rpm, kWm (BHP) | 41.6 (55.8) |
| Unbalanced load capability | 100% of rated standby current | BMEP, gross, psi (Bar) | 121.2 (8.36) |
| Load acceptance | Per ISO - 8528 | Overall thermal efficiency | 36.5% |
| Peak motor starting kVA: 480 V | (30% dip) self-excited series - 78kVA | Exhaust Gas Flow, m ³ /min (cfm) | 11.03 (389.6) |
| Engine Electrical Specifications | | Exhaust gas temperature °C (°F) | 600 (1112) |
| | | Frequency regulation, no-load to full load | 4.5% |
| Engine Electrical System (12 Volt) 60 Hz | | Governor: Type: | Mechanical |
| Battery charging alternator: | | Make: | Yanmar |
| Ground (negative/positive). | Negative | Standard: | |
| Volts (DC)..... | 12V | Frequency regulation, steady state | ± 0.4% |
| Ampere rating..... | 40A | Frequency | Fixed |
| Starter motor rated voltage (DC) | 12V | Air cleaner type | Dry |
| Starter motor rated kW: | 2.3Kw | Remote Radiator System | |
| Battery CCA rating: | 770A | Fuel Consumption 60 Hz | |
| Battery & qty, AH rating: | 1 x 70 AH | Diesel gal/hr (L/hr) Prime Power Rating | |
| Battery Voltage (DC) | 12V | 100% 2.68 (10.1) | |
| Not Available | | 75% 2.14 (8.1) | |
| | | 50% 1.61 (6.1) | |
| Not Available | | 25% 0.94 (3.6) | |
| | | Unit autonomy (hours) | |
| Not Available | | 100% 20 | |
| | | 75% 25 | |
| | | 50% 32 | |
| Contact the HIMOINSA distributor for special cooling options | | | |

Application Data GEHYW-35R

| Cooling | | Lubrication | |
|---|--------------------------------|--|---------------------|
| Radiator Systems | 60 Hz | Lubricating System | 60 Hz |
| Ambient temperature, °C (°F) | NA | Type | Full pressure |
| Engine jacket water capacity L (gal) | 4.2 (1.1) | Oil pan capacity, L, (qt.) | 10.5 (11.1) |
| Radiator system capacity, including engine, L (gal.) | NA | Recommended lube oil | SAE15W40 ; API CF-4 |
| Engine jacket water flow, L/min (g/min) | 50 (13.2) | Oil pan capacity with filter, L (qt.) | NA |
| Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.) | 24.4 (1388) | Oil filter: quantity, type | 1, cartridge |
| Water pump type | Centrifugal | Oil cooler | None |
| Fan, kWm (HP) | 0.4 (0.5) | Maximum oil temperature, °C(°F) | 120 (248) |
| Max. restriction of cooling air, intake and discharge side of radiator, Pa (in. H ² O) | 62.2 (0.25) | Ventilation and Air-Flow Requirements | |
| dBA LEVELS SOUND ATTENUATED ENCLOSED | Within (under) 70dBA @ 21 feet | Air Requirements | 60 Hz |
| | | Radiator-cooled cooling air, m ³ /min. (scfm) | NA |
| | | Air density kg/m ³ (ibm/ft ³) | 1.20 (0.075) |
| | | Heat rejected to exhaust, kW (btu/min) | 42.2 (2400) |
| | | Heat radiated to surrounding air Engine: kW (Btu) | 6.6 (375) |
| | | Combustion air, m ³ /min. (cfm) | 2.69 (95.2) |

Dimensions and Weights

| Sound Attenuated Set Model: GEHYW-35R | |
|--|-----------------------|
| Skid mounted unit. L x W x H, mm (in) | 2,000 x 950 x 1,427 |
| | (78.7 x 37.4 x 56.2) |
| Skid mounted dry Weight, kg (lb.): | 1,021 (2,246) |
| Skid mounted operating Weight, kg (lb.): | 1,194 (2,627) |
| Trailer mounted unit. L x W x H, mm (in) | 3,480 x 1,542 x 1,820 |
| | (137 x 60 x 71.7) |
| Trailer mounted dry Weight, Kg (lb.) | 1,334 (2,936) |
| Trailer mounted operating Weight, Kg (lb.) | 1,507 (3,317) |
| Fuel Tank Capacity, L (US gal) : | 200 (53) |

RATINGS: Power factor three-phase is 0.8 and single-phase unity. Standby Ratings: Standby ratings assume installation normally served by reliable utility power. The standby rating is available for varying loads for the length of the power outage. No overload is available with the standby rating. Ratings are in accordance with ISO-3046/1 and DIN 6271. Prime Power Ratings: Prime power ratings assume no or unreliable utility power. For varying loads the generator set has unlimited operating hours. A 10% overload capacity is available for any 1 hour in a 12 hour continuous running period. Ratings are in accordance with ISO-3046/1 and DIN 6271. Consult Himoina for limited running time and base load ratings. Himoina reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. DERATION GUIDELINES: Altitude: Derate 1.3% per 100 m (328 ft) elevation above 1000 m (3280 ft). Temperature: Derate 1.0% per 10°C (18°F) temperature above 40°C (104°F).



CONTROLLER DISPLAY :

1. Voltage between each Phase & Neutral
2. Voltage between Phases
3. Current (amps) on each Phase
4. Frequency
5. Active, Aparent & Reactive Power
6. Power Factor
7. Instant Power (KWH) and Accumulative power (day, month & year)
8. Fuel reserve
9. Oil pressure, coolant temperature
10. Battery voltage, battery charging alternator voltage
11. Engine Speed
12. Hours running

ENGINE ALARMS :

1. High coolant temperature
2. Low oil pressure
3. Emergency stop

4. Battery charging alternator failure
5. Low coolant level
6. Low fuel level
7. Over speed
8. Under speed
9. Battery low voltage

GENERATOR ALARMS :

1. Over-load
2. Unbalanced voltage
3. Over-voltage
4. Under-voltage
5. Over-frequency
6. Under-frequency
7. Short-circuit
8. Inverse Power
9. Incorrect phase sequence



Distributor:

