



HIPOWER

HYW SERIES

| Power Range | kW |
|-------------|----|
| Standby | 33 |
| Prime | 30 |

MODEL: HYW - 35 M6

STANDARD EQUIPMENT

| Open Type Set | Accessories Available for HYW-35 M6 |
|--|---|
| <ul style="list-style-type: none"> ■ Skid with integral day fuel tank (non-UL) ■ HIPOWER digital auto-start control panel (Page 4) ■ Dry-type replaceable element air-cleaner ■ Industrial muffler ■ Battery, battery rack, and cables ■ Fuel and lubrication oil replaceable element filters ■ Stamford AVR brushless 12-wire reconnectable alternator ■ Oil drain hand pump ■ Vibration Isolators between base and set assembly ■ Main Line Circuit Breaker for overload protection ■ Belt driven charging alternator ■ Guards for shielding all rotating parts ■ Fuel cut-off solenoid and protection switches ■ Radiator with pusher fan ■ Operation and installation manuals | <p><u>Mechanical Accessories Offered</u></p> <ul style="list-style-type: none"> ■ Road towing trailers to DOT standards ■ Critical grade exhaust mufflers ■ UL double wall fuel tanks to customer specification ■ Oil field type skid ■ Flexible exhaust connection for open sets ■ Oil pressure and engine temperature gauges ■ Water Jacket heater ■ Extended warranty coverage period <p><u>Generator End Accessories Offered</u></p> <ul style="list-style-type: none"> ■ Anti-condensation heaters in alternator <p><u>Electrical and Control Accessories Offered</u></p> <ul style="list-style-type: none"> ■ Automatic battery chargers 1.5 and 6 amp ■ NFPA 110 controls and remote annunciator ■ Transfer switch and paralleling control panels ■ Remote control from PC via hard and/or wireless link ■ Digital Timer |
| Sound Attenuated Enclosure | |
| <ul style="list-style-type: none"> ■ Fully sound attenuated enclosure (equipped as open set) ■ Powder Painted with finish that exceeds 1000-hr salt test ■ Rock wool insulation behind protective barrier ■ Curved edges and minimum outside fasteners ■ Single lifting point | |

GENERATOR RATINGS

| Alternator | Voltage | Ph | Hz | Standby Rating | | Prime Rating | |
|------------|-----------|----|----|----------------|-------|--------------|------|
| | | | | kW | Amps | kW | Amps |
| UCI 224 C | 120 / 240 | 1 | 60 | 33 | 137.5 | 30 | 125 |

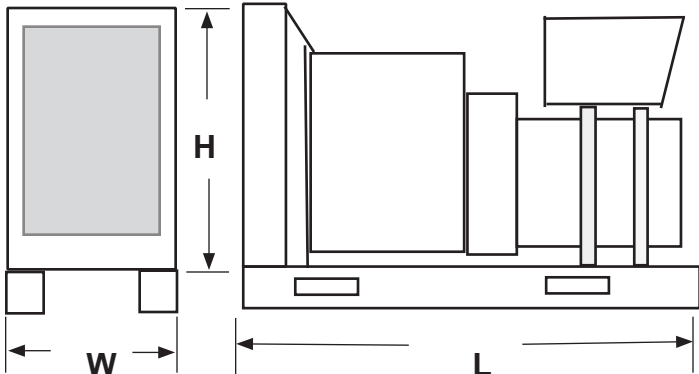
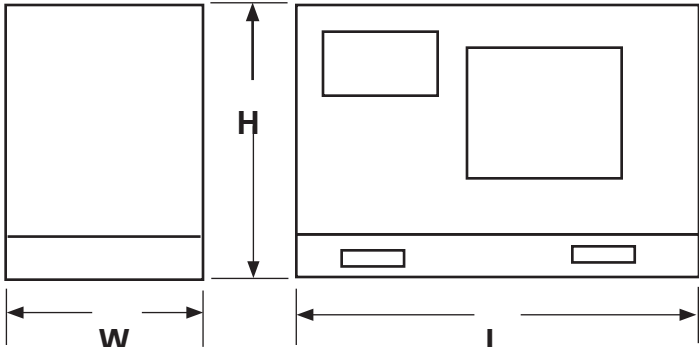
Application Data

| 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 3 |
| 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..... | 125° 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, m³ /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: | Electronic |
| 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 | | |
| Battery CCA rating: | 770A | | |
| Battery & qty, AH rating: | 1 x 70 AH | | |
| Battery Voltage (DC) | 12V | | |
| Remote Radiator System | | Fuel Consumption 60 Hz | |
| Exhaust manifold type | | Diesel gal/hr (L/hr) | Standby Rating |
| Connection sizes: | | 100% | 3.00 (11.4) |
| Water inlet ID hose, mm (in) | | 75% | 2.40 (9.1) |
| Water outlet ID hose, mm (in) | | 50% | 1.80 (6.8) |
| Charge air cooling (CAC) | Not Available | 25% | 1.05 (4.0) |
| Water inlet ID hose, mm (in) | | Diesel gal/hr (L/hr) | Prime Power Rating |
| Water outlet ID hose, mm (in) | | 100% | 2.68 (10.1) |
| Static head allowable above engine, ft.H ₂ O (kPa) | | 75% | 2.14 (8.1) |
| Maximum CAC restriction H ₂ O in. | | 50% | 1.61 (6.1) |
| Contact the HIPOWER distributor for special cooling options | | 25% | 0.94 (3.6) |

Application Data

| 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 | SAE 15W40 ; 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 | |
| dB(A) LEVEL SOUND ATTENUATED ENCLOSED | 65 dB(A) @ 23 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

| Open Skid Model | | Sound Attenuated Enclosure | |
|--|---|--|--|
| Overall size, L x W x H, mm (ins.) | 1,950 x 780 x 1,340 (76.8 x 30.7 x 50.4) | Overall size, L x W x H, mm (ins.) | 2,250 x 1100 x 1,340 (88.6 x 43.3 x 52.8) |
| Weight, radiator-mounted model, wet, kg (lb.): | 604 (1,332) | Weight, radiator-mounted model, wet, kg (lb.): | 1,050 (2,315) |
| Fuel Tank Capacity, L (US gal) | 115 (30.3) | Fuel Tank Capacity, L (US gal) | 100 (26.4) |
|  | |  | |

NOTE: The drawings above are only representative of the overall dimensions. For full detailed installation drawings please consult your local distributor or contact Himoina Power Systems @ www.hipowersystems.com

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:

MEMBER



HIPOWER

