



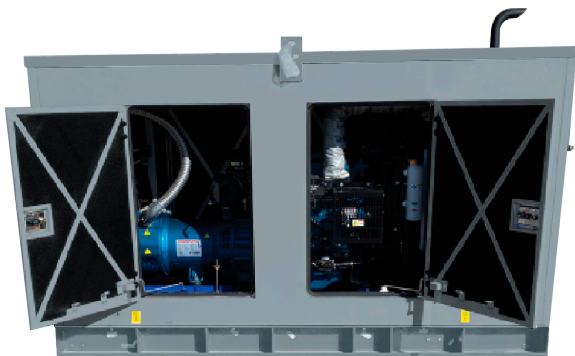
WILDCAT

POWER GEN

The Sentinel UL 40A Diesel Generator Set

40A / G35

| RATINGS / OPTIONS | WILDCAT DIESEL GENERATOR | | | |
|--|---|---|---|---|
| | 35 | 40A | 40B | 40C |
| Kirloskar Engine | 4R810TA2 | 4R810TA2 | 4R810TA2 | 4R810TA2 |
| Engine Capacity / Induction System | 3.24 L / Turbocharged Charge air-cooled | 3.24 L / Turbocharged Charge air-cooled | 3.24 L / Turbocharged Charge air-cooled | 3.24 L / Turbocharged Charge air-cooled |
| Engine Rating HP @ RPM | 48.7 @ 1,800 | 65 @ 1,800 | 65 @ 1,800 | 65 @ 1,800 |
| Stamford Alternator UL1004 Listed | UCI224D | UCI224D | UCI224D | UCI224D |
| Rated kVA | 35 | 50 | 50 | 50 |
| Rated kWe | 35 | 40 | 40 | 40 |
| Number of Phases | 1 | 3 | 3 | 3 |
| Rating Power Factor | 1 | 0.8 | 0.8 | 0.8 |
| Rated Voltage V | 120/240 | 120/208 | 277/480 | 120/240 |
| Rated Current Amps | 146 | 139 | 60 | 120 |
| 3-pole Circuit Breaker Size in Amps, UL Listed | Any UL Listed 3-pole breaker with rating of 100%–125% of rated current of the respective rating | | | |
| Controller Options UL Listed | Deep Sea | Deep Sea | Deep Sea | Deep Sea |
| Standard Diesel Tank Capacity | 8 hours | 8 hours | 8 hours | 8 hours |
| Length | 108.2 in. (2,750 mm) | 108.2 in. (2,750 mm) | 108.2 in. (2,750 mm) | 108.2 in. (2,750 mm) |
| Width | 42.6 in. (1,083 mm) | 42.6 in. (1,083 mm) | 42.6 in. (1,083 mm) | 42.6 in. (1,083 mm) |
| Height | 63 in. (1,601 mm) | 63 in. (1,601 mm) | 63 in. (1,601 mm) | 63 in. (1,601 mm) |





The Sentinel UL 40A

Features and Specifications

Features

- Extremely reliable
- Lower operating cost
- Easy maintenance – higher uptime
- Sound attenuated enclosure is fully integrated and designed for all weather conditions – weatherproof
- Smart battery charger
- Isochronous electronic governor
- State-of-the-art generating set control system with high degree of accuracy and reliability
- Ideally suitable for critical industries like Construction, Manufacturing, Textile, Services, etc.
- Superior design standards that minimize power deration even at high ambient temperatures
- Prompt and efficient after-sales service

| CONTROL SYSTEM | |
|---------------------------------|--|
| Manufacturer | Deep Sea |
| Model | DSE 7310 |
| Digital Display Instrumentation | <ul style="list-style-type: none"> • Generator voltage • Generator amps • Generator frequency • Mains voltage • Battery voltage • Engine hours run • Oil pressure gauge • Engine temperature gauge • Fuel level |
| Shutdowns/ Safeties | <ul style="list-style-type: none"> • Fail to stop • Low oil pressure • High engine temperature • Under/overspeed • Under/overvoltage • Emergency stop • Failed to reach loading voltage • Failed to reach loading frequency • Charge fail • Overcurrent • Low DC voltage warning • Low coolant level |

| ENGINE TECHNICAL DATA | |
|-----------------------|------------------------------------|
| Manufacturer | Kirloskar |
| Model | 4R810TA2 |
| Number of Cylinders | 4 |
| Configuration | Inline |
| Type | Four-stroke |
| Bore x Stroke (mm) | 96 X 112 |
| Displacement | 3.24 L |
| Induction System | Turbocharged and charge air-cooled |
| Compression Ratio | 18:1 |
| Starting Arrangement | 12V electric |





The Sentinel UL 40A

Technical Specifications

| ALTERNATOR TECHNICAL DATA | |
|--|-------------------------------|
| Manufacturer | Stamford |
| Type | 4-pole, rotating field |
| Exciter Type | Brushless, wound field |
| Leads Type/Quantity | Reconnectable, 12 |
| Voltage Regulator | Solid state, volts/Hz |
| Insulation | NEMA MG1 - 32 |
| Insulation Material | Class H |
| Insulation Temp. Increase | 150°C, standby |
| Bearing Type/Quantity | Sealed, 1 |
| Coupling | Flexible disc |
| Voltage Regulation, No-load to Full-load | Controller-dependent |
| One-step Load Acceptance | 100% of rating |
| Unbalanced Load Capability | 100% of rated standby current |





The Sentinel UL 40A

Technical Specifications

| ENGINE MODEL NO. 4R810TA2 | |
|--|----------------------|
| Gross Engine Power (Standby at 1,800 RPM) | 48.5 kWm |
| Mean Piston Speed | 6.72 m/s |
| Engine Coolant Flow | 125 L/min |
| Combustion Air Flow | 275 kg/hr |
| Exhaust Gas Flow Max. | 290 kg/hr |
| Exhaust Gas Temperature Max. | 1,022°F (550°C) |
| Cooling System | |
| Coolant Capacity with Radiator | 16 L |
| Exhaust System | |
| Max. Allowable Back Pressure of Exhaust System at Rated Power (at Exhaust Manifold Outlet) | 75 mm Hg |
| Exhaust Outlet Pipe Inner Diameter | 69 mm |
| Lubrication System | |
| Sump Max. | 11.5 L |
| Fuel Consumption* | |
| 100% | 13.7 L/hr |
| 75% | 10.3 L/hr |
| 50% | 7.2 L/hr |
| 25% | 4.4 L/hr |
| Electrical System | |
| Charging Alternator Output Current | 35 amps |
| Starter Motor Voltage | 12 VDC |
| Battery Capacity/ Requirement (CCA) | 600 CCA @ 32°F (0°C) |

* **NOTE:** Corresponding to gross power under NTP conditions after 50 hours of running in with reference fuel. Fuel consumption readings are based on diesel fuel with a specific gravity of 0.854 and confirming to BS 2869, Class A2 Production Tolerance: +5%.