



S4S – SERIES

39.5 to 74 HP

| | Model | | | S4S | S4S-DT |
|-----------------------|--|----------|----------|--------------------------------------|------------------|
| Specifications | Type | | | 4-cycle, water-cooled, diesel engine | |
| | | | | Naturally-Aspirated | Turbocharged |
| | Cylinder arrangement-Bore x Stroke (mm) | | | 94 x 120 | |
| | Engine Configuration | | | Inline 4 Cyl. | |
| | Total Displacement - Liters | | | 3.331 | |
| | Combustion System | | | Swirl Chamber-IDI | Direct Injection |
| | Dry Weight kg/lbs. | | | 245/540 | 250/551 |
| | Starting System | | | Electric starting with cell starter | |
| | Fuel Oil | | | Diesel fuel oil (ASTM No. 2-D) | |
| Power Unit | Continuous Power Rating Output kWm (HP) | 1500 rpm | | 29.4 (39.5) | 36.8 (49.3) |
| | | 1800 rpm | | 34.9 (47.0) | 41.5 (55.6) |
| | | 2000 rpm | | 38.2 (51.0) | 44.0 (59.0) |
| | | 2200 rpm | | 41.2 (55.5) | 46.4 (62.3) |
| | | 2500 rpm | | 44.9 (60.0) | 49.7 (66.6) |
| | One-hour Power Rating Output kWm (HP) | 1500 rpm | | 30.9 (41.5) | 40.9 (54.8) |
| | | 1800 rpm | | 36.8 (49.5) | 46.1 (61.8) |
| | | 2000 rpm | | 40.5 (54.0) | 48.9 (65.5) |
| | | 2200 rpm | | 43.4 (58.0) | 51.6 (69.2) |
| | | 2500 rpm | | ★ 47.1 (63.0) | ★ 55.2 (74.0) |
| Generators | Prime Power kWm (HP) | 50Hz | 1500 rpm | 28.0 (37.5) | 36.8 (49.5) |
| | | 60Hz | 1800 rpm | 33.5 (45.0) | 43.4 (58.0) |
| | Stand-By kWm (HP) | 50Hz | 1500 rpm | 30.9 (41.5) | 40.5 (54.0) |
| | | 60Hz | 1800 rpm | ★ 36.8 (49.5) | ★ 47.8 (64.0) |
| ★ EPA CERTIFIED | | | | | |

CONSTRUCTION

- Ribbed thin-wall cast iron crankcase for added strength and durability.
- Internal crankcase breather for reduced emissions.
- Extra large bearing surfaces for low bearing loads and long life.

LUBRICATION

- Full flow spin-on cartridge filter.
- Forced circulation by a trochoid gear pump.
- Oil Capacity: 2.64 gal (10 lit.)

FUEL & COMBUSTION SYSTEMS

- Bosch style fuel injection pump.
- Indirect injection combustion system on S4S model for low noise and emissions.

MOUNTING

- Standard crankcase side mounting pads for flexible mounting arrangements.
- Rear engine support available from side pad mounting pads on SAE 3 housing.

COOLING

- Forced circulation by centrifugal pump.
- Cooling packages available for ambient temperatures up to 122°F (50°C).
- Cooling Fan (Std. Eqt.): Variable Speed (VS) – Suction
Generator Drive (GS) – Pusher

ELECTRIC SYSTEM

- Starter: 12V, 2.2kW
- Alternator: 12V, 50 amp with integral regulator.
- Glow Plugs: 12V
- High water temperature and low oil pressure switches.
- Stop Solenoid: 12V, energized to run (ETR) solenoid.

GOVERNING

Mechanical governing is provided for either variable or constant speeds.

DRIVES

- SAE 3 flywheel housing and 11.5 inch flywheel (GD & VS models).
- Rotation direction: counter-clockwise, facing the flywheel.
- Limited power hydraulic drives are available for mounting at the gear end.