

# SQ-Series 29 to 49 HP



Model		S4Q2	S4Q2-T	
Specifications	Type	4-cycle, water-cooled, diesel		
		Natural-aspirated	Turbocharged	
	Bore x Stroke (mm)	88 x 103		
	Cylinder arrangement	Inline 4 Cyl.		
	Total Displacement	2.505 L		
	Combustion System	Swirl Chamber - IDI		
	Dry Weight kg/lbs.	195/430	200/442	
	Starting System	12 Volt Electric		
Fuel Oil	Diesel fuel oil (ASTM No. 2-D)			
Power Unit	Continuous Power Rating Output HP (kWm)	1500 rpm	28.6 (21.3)	31.5 (23.5)
		1800 rpm	35.8 (26.7)	37.7 (28.1)
		2000 rpm	40.1 (29.9)	42.2 (31.5)
		2200 rpm	43.7 (32.6)	44.9 (33.5)
		2400 rpm	45.7 (34.1)	48.5 (36.2)
		2500 rpm	46.4 (34.6)	N/A
Generators	Prime Power Rating Output HP (kWm)	60 Hz 1800 rpm	31.5 (23.5)	N/A
	Stand-by Rating Output HP (kWm)	60 Hz 1800 rpm	33.5 (25.0)	N/A

## 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:

- Designed to run at up to 30 degrees of inclination.
- Full flow spin-on cartridge filter
- Forced circulation by gear pump
- Oil Capacity: 1.72 gal. (6.5 ltr)

## FUEL & COMBUSTION SYSTEMS:

- Bosch style fuel injection pump
- Indirect injection combustion system for low noise and emissions
- Cylinder head is pre-chamber design to increase efficiency of combustion

## MOUNTING:

- Standard crankcase side mounting pads for flexible mounting arrangements
- Rear engine support available from side mounting pads on SAE 4 housing

## COOLING:

- Forced circulation by centrifugal pump
- Cooling packages available for ambient temperatures
- Cooling Fan (Std. Eq.): Variable Speed (VS)-Suction Generator Drive (GD)-Pusher

## ELECTRIC SYSTEM:

- Starter: 12V, 2.0kW
- 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 4 flywheel housing and 7.5 inch flywheel (GD & VS models)
- Rotation direction: counter-clockwise, facing the flywheel end
- Side PTO drives are available for mounting at the gear end