

Technical Specification



Model: SEMP200S

Powered by PERKINS



Applicable Standards

- ISO 8528-5:2018
- GB/T2820.5-2009
- CE

General Information		Prime power	Standby power
Rated Power (kVA)		200	220
Power Rating (kW)		160	176
Frequency (Hz)		50	
Engine Model		1106A-70TAG4	
Engine Speed (RPM)		1500	
Phase		3	
PF		0.8	
Control System		Digital	
Rated voltage (V)		380/220 (According to customer requirements)	
Fuel tank capacity operating time		≥ 8h @ 75% load	
Fuel Consumption (L/h)	110% load	49.4	
	100% load	45.8	
	75% load	34.7	
	50% load	24.1	

Environmental Conditions

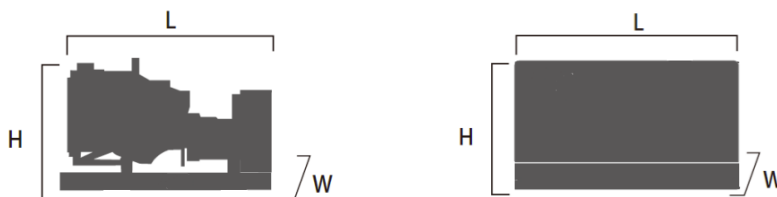
- Ambient temperature: +5°C~+40°C
- Altitude: ≤1000m
- Remark: If your conditions are different from the above, please contact our sales.

Factory Inspection

- Complete design and quality inspection
- 0%, 25%, 50%, 75%, 100%, 110% load test.
- Function test.
- Protection test

Painting Process

- SEM has the most advanced automatic spraying / powder coating production line, and is equipped with various sandblasting equipment to ensure higher quality.
- Canopy painting: Henkel pretreatment process and world famous brand AkzoNobel powder.
- Base Frame painting: Sandblasting process and AkzoNobel powder



Dimension and Weight

Model	SEMP200 Open type	SEMP200S Silent type
Length (L) mm	2200	3200
Width (W) mm	700	1125
Height (H) mm	1350	1650
Dry weight (kg)	1080	2200
Tank capacity (L)	155	220
The loading capacity (40'HC)	15 units	8 units

Note: Specifications and illustrations are subject to revision without notice.



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Engine Specifications

Engine model & manufacturer		1106A-70TAG4 (Perkins)
Emission Certification		-----
Number of cylinders		6
Cylinder arrangement		In-line
Cycle		Four stroke
Aspiration		Turbocharged
Bore x Stroke		105x 135 mm
Displacement		7 L
Compression ration		16: 1
Prime power /speed		178.9kW/1500 rpm
Standby power /speed		196.3kW/1500 rpm
Speed governor		Electronic
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤1%
Total lubrication system capacity		16.5 L
Coolant capacity		9.5 L
Fuel consumption	100% load	213 g/kWh @ 1500 rpm
Starter motor		DC 24V
Charge alternator		DC 24V

- ◆ Heavy duty diesel engine
- ◆ Anti-vibration mount
- ◆ Replaceable fuel filter, oil filter & air filter
- ◆ Cooling radiator and fan
- ◆ Starter battery (with lead acid) including rack and cables
- ◆ Flexible fuel connection hoses
- ◆ Exhaust silencer and bellows
- ◆ Operation manuals and circuit diagram documents

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Alternator Specifications



Alternator Model		EAGLE JDG274H	
Rated Output	200kva		
Efficiency (%)	93.4 %		
Rated speed	1500 RPM		
Rated Voltage	400V		
Exciter type	Self Excitation, Brushless		
Number of phase	3		
Power factor (Cos Phi)	0.8		
Poles	4		
Insulation type	H class		
Winding Pitch	2/3		
IP rating	IP23		
Bearing	Single bearing		
Voltage regulator	A.V.R SX460		
Coupling	Flexible disc		
Altitude	<=1000m		
Optional			
Optional alternator band	Stamford	Leroy Somer	
Optional alternator model	UCI 274H	TAL-A44-M	
Rated output power	200kVA	200kVA	

Control Panel

DSE7320MKII

AUTO START & AUTO MAINS FAILURE CONTROL MODULES



Key features

- 4-Line back-lit LCD text display
- Multiple Display Languages
- Five key menu navigation
- LCD alarm indication
- Heated display option available
- Customisable power-up text and images
- DSENet expansion compatibility
- Data logging facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB, RS232 & RS485 communication
- Front panel configuration with PIN protection

Key benefits

- 3 phase mains (utility) sensing and protection (DSE7320 MKII only)
- Automatic load transfer control (DSE7320 MKII only)
- Generator current and power monitoring (kW, kvar, kVA, pf)
- Mains current and power monitoring (kW, kvar, kVA, pf) (DSE7320 MKII only)
- kW and kvar overload and reverse power alarms
- Over current protection
- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons
- Automatically transfers between mains (utility) and generator (DSE7320 MKII only) for convenience.
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored & displayed simultaneously for full visibility
- The module can be configured to suit a wide range of applications for user flexibility
- PLC editor allows user configurable functions to meet user specific application requirements

Options

Engine	Alternator	Fuel System	Generating Set
<input type="checkbox"/> Water Jacket Preheater <input type="checkbox"/> Oil Preheater <input type="checkbox"/> Oil manual pump	<input type="checkbox"/> PMG excitation <input type="checkbox"/> Space heater <input type="checkbox"/> Winding temperature measuring	<input type="checkbox"/> 12 / 24 hour base tank <input type="checkbox"/> Bunded fuel tank <input type="checkbox"/> External fuel tank <input type="checkbox"/> Automatic fuel feeding <input type="checkbox"/> Switch between external tank and base tank (three-way valve)	<input type="checkbox"/> Deepsea, ComAp, Smartgen etc. controller <input type="checkbox"/> Trailer <input type="checkbox"/> Tools with the machine

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