Technical Specification



Model: SEMP60S

Powered by **PERKINS**

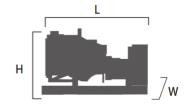




Applicable Standards

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

General Information		Prime power	Standby power	
Rated Power (kVA)		60	66	
Power Rating (kW)		48	53	
Frequency (Hz)		50		
Engine Model		1103A-33TG2		
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	15.9		
	100% load	14.6		
	75% load	10.8		
	50% load	7.6		





Dimension and Weight				
Model	SEMP60 Open type	SEMP60S Silent type		
Length (L) mm	2050	2300		
Width (W) mm	700	1000		
Height (H) mm	1350	1450		
Dry weight (kg)	1220	1450		
Tank capacity (L)	155	190		
The loading capacity (40'HC)	17 units	16 units		

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

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









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Engine Specifications

Engine model & manufacturer		1103A-33TG2 (Perkins)	
Emission Certification			
Number of cylinders		3	
Cylinder arrangement		In-line	
Cycle		Four stroke	
Aspiration		Turbocharged	
Bore x Stroke		105x 127 mm	
Displacement		3.3 L	
Compression ration		17.25: 1	
Prime power /speed		55kW/1500 rpm	
Standby power /speed		60.5kW/1500 rpm	
Speed governor		Mechanical	
Cooling system		Forced Water Cooling Cycle	
Frequency droop		≤5%	
Total lubrication system capacity		8.3 L	
Coolant capacity		4.4 L	
Fuel consumption	100% load	239 g/kWh @1500 rpm	
Starter motor		DC 12V	
Charge alternator		DC 12V	
♦ Heavy duty diesel engine		◆ Starter battery (with lead acid) including rack and cables	
♦ Anti-vibration mount		 Flexible fuel connection hoses 	
♦ Replaceable fuel filter, oil filter & air filter		 Exhaust silencer and bellows 	
♦ Cooling radiator and fan		 Operation manuals and circuit diagram documents 	



Technical Specification

EAGLE

Alternator Specifications

Alternator Model	EAGLE 224E
Rated Output	60kva
Effciency (%)	88.3 %
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	S1L2-Y1 TAL-A42-H
Rated output power	60kva 60kva



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
Water Jacket PreheaterOil PreheaterOil manual pump	 PMG excitation Space heater Winding temperature measuring 	□ Bunded fuel tank □ External fuel tank	 Deepsea, ComAp, Smartgen etc. controller Trailer Tools with the machine

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