Technical Specification



Model: SEMP20S

1.0

Powered by PERKINS

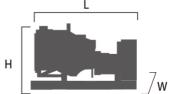
EAGLE

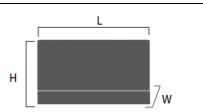


Applicable Standards

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

General Information		Prime power	Standby power	
Rated Power (kVA)		20	22	
Power Rating (kW)		16	17.6	
Frequency (Hz)		50		
Engine Model		404D-22G L		
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	6.1		
	100% load	5.3		
	75% load	4.0		
	50% load	2.9		
	1			





Dimension and Weight					
Model	SEMP20 Open type	SEMP20S Silent type			
Length (L) mm	1600	1910			
Width (W) mm	650	850			
Height (H) mm	1300	1200			
Dry weight (kg)	550	820			
Tank capacity (L)	90	60			
The loading capacity (40'HC)	22 units	32 units			

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

CE

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



Technical Specification



Engine Specifications

Engine model & manufacturer		404D-22G L(Perkins)
Emission Certification		Stage IIIA
Number of cylinders		4
Cylinder arrangement		In-line
Cycle		Four stroke
Aspiration		Naturally aspirated
Bore x Stroke		84x 100 mm
Displacement		2.216 L
Compression ration		23.3: 1
Prime power /speed		18.7kW/1500 rpm
Standby power /speed		20.6kW/1500 rpm
Speed governor		Mechanical
Cooling system		Forced Water Cooling Cycle
Frequency droop		≤5%
Total lubrication system capacity		10.6 L
Coolant capacity		3.6 L
Fuel consumption	100% load	237 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



Alternator Specifications

Alternator Model	EAGLE 184E			
Rated Output	22.5kva	22.5kva		
Effciency (%)	84.2%	84.2%		
Rated speed	1500 RPM	1500 RPM		
Rated Voltage	400V	400∨		
Exciter type	Self Excitation, Brushless	Self Excitation, Brushless		
Number of phase	3	3		
Power factor (Cos Phi)	0.8	0.8		
Poles	4	4		
Insulation type	H class	H class		
Winding Pitch	2/3	2/3		
IP rating	IP23	IP23		
Bearing	Single bearing	Single bearing		
Voltage regulator	A.V.R SX460	A.V.R SX460		
Coupling	Flexible disc	Flexible disc		
Altitude	<=1000m	<=1000m		
Optional				
Optional alternator band	Stamford	Leroy Somer		
Optional alternator model	S0L2-G1	TAL-A40-F		
Rated output power	20kva	20kva		



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
 aimultaneously for full visibility
- simultaneously for full visibility
 The module can be configured
 to put a wide reason of
- to suit a wide range of applications for user flexibilityPLC editor allows user
- configurable functions to meet user specific application requirements

Options

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

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