## **Technical Specification**



## Model: SEMP80S

1.0

Powered by **PERKINS** 

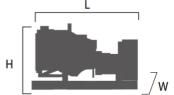
EAGLE

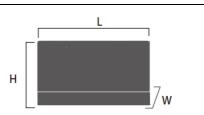


#### Applicable Standards

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

General Information		Prime power	Standby power
Rated Power (kVA)		80	88
Power Rating (kW)		64	70
Frequency (Hz)		50	
Engine Model		1104A-44TG2	
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	20.5	
	100% load	18.7	
	75% load	14.0	
	50% load	9.7	
			I





Dimension and Weight					
Model	SEMP80 Open type	SEMP80S Silent type			
Length (L) mm	2200	2800			
Width (W) mm	700	1075			
Height (H) mm	1350	1650			
Dry weight (kg)	1080	1580			
Tank capacity (L)	155	190			
The loading capacity (40'HC)	15 units	8 units			

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

### GB/T2820.5-2009

- **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		1104A-44TG2 (Perkins)		
Emission Certification				
Number of cylinders		4		
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		73.4kW/1500 rpm		
Standby power /speed		80.7kW/1500 rpm		
Speed governor		Mechanical		
Cooling system		Forced Water Cooling Cycle		
Frequency droop		≤5%		
Total lubrication system capacity		8 L		
Coolant capacity		7 L		
Fuel consumption	100% load	239 g/kWh @1500 rpm		
Starter motor		DC 12V		
Charge alternator		DC 12V		
Heavy duty diesel engine		<ul> <li>Starter battery (with lead acid) including rack and cables</li> </ul>		
Anti-vibration mount		<ul> <li>Flexible fuel connection hoses</li> </ul>		
<ul> <li>Replaceable fuel filter, oil filter &amp; air filter</li> </ul>		<ul> <li>Exhaust silencer and bellows</li> </ul>		
Cooling radiator and fan		<ul> <li>Operation manuals and circuit diagram documents</li> </ul>		

## **Technical Specification**



## **Alternator Specifications**

Alternator Model	EAGLE 224GS			
Rated Output	80kva	80kva		
Effciency (%)	88.3 %			
Rated speed	1500 RPM	1500 RPM		
Rated Voltage	400V	400V		
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	_eroy Somer		
Optional alternator model	UCI 224G	TAL-A44-C		
Rated output power	80kva 8	30kva		



## **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 range 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
Oil Preheater	<ul> <li>PMG excitation</li> <li>Space heater</li> <li>Winding temperature measuring</li> </ul>	<ul> <li>Bunded fuel tank</li> <li>External fuel tank</li> </ul>	<ul> <li>Deepsea, ComAp, Smartgen etc. controller</li> <li>Trailer</li> <li>Tools with the machine</li> </ul>

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