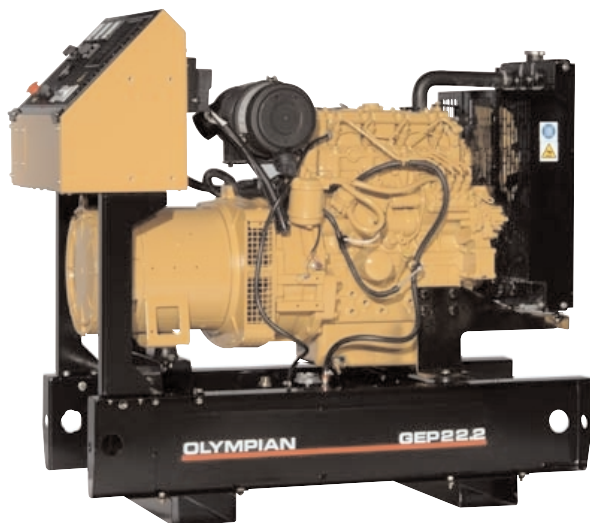


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## GEP11SP-2 (1 Phase)

### 50 HZ

STANDBY	11.0 kVA / 11.0 kW
PRIME	10.0 kVA / 10.0 kW

### 60 HZ

STANDBY	13.0 kVA / 13.0 kW
PRIME	12.0 kVA / 12.0 kW

## FEATURES

### GENERATING SET

- Complete system designed and built at ISO9001 certified facility
- Factory tested to design specifications at full load conditions
- Fully engineered with a range of options and accessories

### ENGINE

- Industrial water cooled diesel engine
- Governor, mechanical
- Electrical system, 12 VDC
- Cartridge type fuel and oil filters
- Air filter
- Battery(s), rack and cables

### ALTERNATOR

- Self excited brushless generator
- Insulation system, class H
- Drip proof alternator air intake (IP23)
- Electrical design in accordance with BS5000 Part 99, IEC60034-1, VDE0530, UTE51100

### CONTROL SYSTEM

- LCP2 control panel
- Vibration isolated sheet steel enclosure with hinged lockable door

### MOUNTING ARRANGEMENT

- Heavy-duty fabricated steel base with lifting points
- Anti-vibration pads to ensure vibration isolation
- Engine coupled to alternator with flexible disc coupling
- Baseframe incorporates metal fuel tank, 8 hours running capacity

### EXHAUST SYSTEM

- Heavy duty industrial capacity exhaust silencer (approximately 25 dB reduction) supplied loose

### COOLING SYSTEM

- Standard ambient temperatures up to 50° C (122° F)
- Fan, fan drive and charging alternator fully guarded
- Antifreeze protection coolant

### CIRCUIT BREAKER

- 3-pole miniature circuit breaker (mcb) < 100 amps
- Vibration isolated sheet steel enclosure with removable cover plate
- Outgoing cable stub-up area directly below circuit breaker

### AUTOMATIC VOLTAGE REGULATOR

- Voltage regulation  $\pm 1.0$  %
- Provides fast recovery from transient load changes

### EQUIPMENT FINISH

- All electroplated hardware
- Anticorrosive paint protection
- High gloss polyurethane paint for durability and scuff resistance

### QUALITY STANDARDS

- BS4999, BS5000, BS5514, IEC60034, VDE0530

### DOCUMENTATION

- Operation and maintenance manuals provided
- Wiring diagrams included

### WARRANTY

- All equipment carries full manufacturer's warranty. Extended warranty terms available.

5 0 H z	S T A N D B Y	1 1 . 0 k V A / 1 1 . 0 k W
	P R I M E	1 0 . 0 k V A / 1 0 . 0 k W
6 0 H z	S T A N D B Y	1 3 . 0 k V A / 1 3 . 0 k W
	P R I M E	1 2 . 0 k V A / 1 2 . 0 k W

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## OPTIONAL EQUIPMENT\*

<b>Cooling System</b>	Coolant heater 50% Anti-Freeze (Protection to -36°C)
<b>Fuel System</b>	Low fuel level alarm
<b>Silencer System – Open Unit</b>	Engine mounted level 2 silencer Overhead mounting kit
<b>Enclosures</b>	Sound attenuated enclosure Perspex control panel viewing in lockable access door
<b>Handling/Trailers</b>	Single point lift Fixed height drawbar 2 wheel trailer Adjustable height drawbar 2 wheel trailer
<b>Controls</b>	LCP0 Series panel LCP1 Series panel Access 2000 panel Access 4000 panel Lube oil pressure gauge Coolant temperature gauge Battery charger
<b>Circuit Breaker</b>	Upgrades from 3-pole to 4-pole breaker 32A CEE Form socket 50 Hz only 63A CEE Form socket 50 Hz only Earth Leakage protection for main output 300 mA, CB trip
<b>Certification</b>	European CE certification

\*Some options may not be available on all models.  
Not all options are listed.

50 Hz	STANDBY	11.0 kVA	/	11.0 kW
	PRIME	10.0 kVA	/	10.0 kW
60 Hz	STANDBY	13.0 kVA	/	13.0 kW
	PRIME	12.0 kVA	/	12.0 kW

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## SPECIFICATIONS



### ALTERNATOR

Make.....	Olympian
Model.....	LLB1014H
Type.....	Self-excited, brushless
Voltage regulation.....	±1.0% at steady state from no load to full load
Frequency.....	±1.0% for constant load from no load to full load
Waveform distortion.....	THD <4%
Radio interference.....	Compliance with BS800 and VDE Class G&N
Telephone Interference.....	TIF <50, THF <2%
Overspeed limit.....	2250 rpm
Insulation.....	Class H
Temperature rise.....	Within Class H limits
Deration.....	Consult factory for available outputs

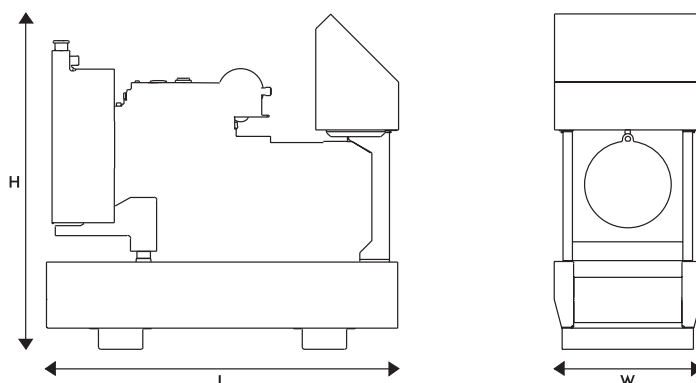


### ENGINE

Manufacturer.....	Perkins
Model.....	403C-15G
Type.....	4-Cycle
Aspiration.....	Naturally aspirated
Cylinder configuration.....	In-line 3
Displacement — L (cu in).....	1.5 (91.3)
Bore/stroke — mm (in).....	84/90 (3.3/3.5)
Compression ratio.....	22.5:1
Engine speed — rpm	
50 Hz.....	1500
60 Hz.....	1800

Piston speed — m/sec (ft/sec)	
50 Hz.....	4.5 (14.8)
60 Hz.....	5.4 (17.7)
Maximum power at rated rpm — kW (hp)	
Standby	
50 Hz.....	13.5 (18.1)
60 Hz.....	16.2 (21.7)
Prime	
50 Hz.....	12.12 (18.4)
60 Hz.....	14.7 (19.7)
BMEP — kPa (psi)	
Standby	
50 Hz.....	TBA
60 Hz.....	TBA
Prime	
50 Hz.....	650 (94.2)
60 Hz.....	650 (94.2)
Regenerative power — kW (hp)	
50 Hz.....	TBA
60 Hz.....	TBA
Motor starting capability — kW (hp)	
50 Hz.....	TBA
60 Hz.....	TBA
Governor	
Type.....	Mechanical
Class.....	ISO 8528 G2

## GENERATOR SET DIMENSIONS AND WEIGHTS



Model	Length mm (in)	Width mm (in)	Height mm (in)	Weight* kg (lb)
GEP11SP-2	1320 (52.0)	552 (21.7)	1258 (49.5)	TBA

Note: General configuration not to be used for installation. See general dimension drawings for detail.

\*Includes oil and coolant

Consult your Olympian representative for more information

50 Hz	STANDBY	11.0 kVA / 11.0 kW
	PRIME	10.0 kVA / 10.0 kW
60 Hz	STANDBY	13.0 kVA / 13.0 kW
	PRIME	12.0 kVA / 12.0 kW

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## GEP11SP-2 (1-Phase)

Generator Set Technical Data		50 Hz		60 Hz	
		Standby	Prime	Standby	Prime
<b>Package Performance</b> Power rating	kVA (kW)	11.0 (11.0)	10.0 (10.0)	13.0 (13.0)	12.0 (12.0)
<b>Lubricating System</b> Type: Oil Oil filter: Spin-on, full flow Oil cooler: Coolant Oil type required: API CH-4/ACEA E5 Total lube system capacity Oil pan capacity	L (U.S. Gal) L (U.S. Gal)	6.0 (1.59) 4.5 (1.19)		6.0 (1.59) 4.5 (1.19)	
<b>Fuel System</b> Fuel Tank Capacity Generating set fuel consumption** 100% load 75% load 50% load	L (U.S. Gal) L/hr (U.S. g/hr) L/hr (U.S. g/hr) L/hr (U.S. g/hr)	45 (11.9) 4.1 (1.1) 3.0 (0.8) 2.2 (0.6)	3.7 (1.0) 2.8 (0.7) 2.1 (0.5)	45 (11.9) 4.7 (1.2) 3.5 (0.9) 2.5 (0.7)	4.3 (1.1) 3.2 (0.9) 2.4 (0.6)
<b>Engine Electrical System</b> Voltage/ground: 12 vDC/negative Battery charging alternator ampere rating	amps	55		55	
<b>Cooling System</b> Water pump type: Centrifugal Cooling system capacity Maximum coolant static head Coolant flow rate Minimum temperature to engine Temperature rise across engine Heat rejected to coolant at rated power Total heat radiated to room at rated power Radiator fan load	L (U.S. Gal) m H <sub>2</sub> O (ft H <sub>2</sub> O) L/hr (U.S. gal/hr) °C (°F) °C (°F) kW (Btu/min) kW (Btu/min) kW (hp)	6.0 (1.6) TBA TBA TBA TBA 12.9 (734) 5.9 (336) 0.2 (0.27)	11.6 (660) TBA TBA TBA TBA 11.6 (660) 5.6 (319)	6.0 (1.6) TBA TBA TBA TBA 15.2 (865) 7.6 (432) 0.3 (0.40)	13.6 (774) TBA TBA TBA TBA 13.6 (774) 7.3 (416)
<b>Air Requirements</b> Combustion air flow Maximum air cleaner restriction Radiator cooling air Generator cooling air	m <sup>3</sup> /min (cfm) kPa (in H <sub>2</sub> O) m <sup>3</sup> /min (cfm) m <sup>3</sup> /min (cfm)	1.08 (38.1) TBA 24.6 (869) TBA	TBA	1.23 (43.4) TBA 33.0 (1165) TBA	TBA
<b>Exhaust System</b> Maximum allowable backpressure Exhaust flow at rated power Exhaust temperature at rated power (dry exhaust)	kPa (in Hg) m <sup>3</sup> /min (cfm) °C (°F)	10.2 (3.01) 2.88 (102) 490 (914)	TBA	10.2 (3.01) 3.36 (119) 505 (941)	TBA
<b>Generating Set Noise Rating*</b> (without attenuation) at 1 m (3.28 ft)	dBA	TBA		TBA	

\*dBA levels are for guidance only

\*\*Fuel consumption data at indicated load with diesel fuel with a specific gravity of 0.85 and conforming to BS2869:1998 Class A2.

Alternator Technical Data		50 Hz			60 Hz	
		240V	230V	220V	240V	220V
<b>Motor Starting Capability:</b> Self Excited (kVA)		15	14	14	14	12
<b>Full Load Efficiency</b>						
Standby %		83	82.5	81.7	82.2	80.8
Prime %		83	82.5	81.7	82.8	80.8
<b>Reactances (per unit)</b>						
Saturated X'd		1.34	1.45	1.53	1.90	2.24
Reactances are shown	X'd	0.25	0.28	0.30	0.35	0.42
	X"q	0.120	0.131	0.143	0.171	0.201
	X"q	0.67	0.73	0.80	0.95	1.12
applicable to the standby rating	X"q	0.172	0.187	0.205	0.244	0.288
<b>Time Constants:</b>		t'd 40 ms.	t" d 6 ms.	t'do 280 ms.	ta 8 ms.	

Consult your Olympian representative for more information.

50 Hz	STANDBY	11.0 kVA / 11.0 kW
	PRIME	10.0 kVA / 10.0 kW
60 Hz	STANDBY	13.0 kVA / 13.0 kW
	PRIME	12.0 kVA / 12.0 kW

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## RATINGS AT AVAILABLE VOLTAGES

50 Hz					
Voltage Code	Voltage	Standby		Prime	
		kVA	kW	kVA	kW
VOPT521	240	11.0	11.0	10.0	10.0
VOPT523	230	11.0	11.0	10.0	10.0
VOPT525	220	11.0	11.0	10.0	10.0

60 Hz					
Voltage Code	Voltage	Standby		Prime	
		kVA	kW	kVA	kW
VOPT622	240/120	13.0	13.0	12.0	12.0
VOPT626	240/120	12.9	12.9	11.8	11.8

Ratings at 27° C (80° F), 152.4 m (500 ft), 60% humidity, unity pf

## RATING DEFINITIONS

### STANDBY

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. When used at standby rating the alternator will be peak continuous rated (as defined in ISO8528-3).

### PRIME POWER

These ratings are applicable for supplying continuous power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

50 Hz	STANDBY	11.0 kVA	/	11.0 kW
	PRIME	10.0 kVA	/	10.0 kW
60 Hz	STANDBY	13.0 kVA	/	13.0 kW
	PRIME	12.0 kVA	/	12.0 kW

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LEHF3048-00 (04/03)

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