



P330-5

Optional LS Upgrade

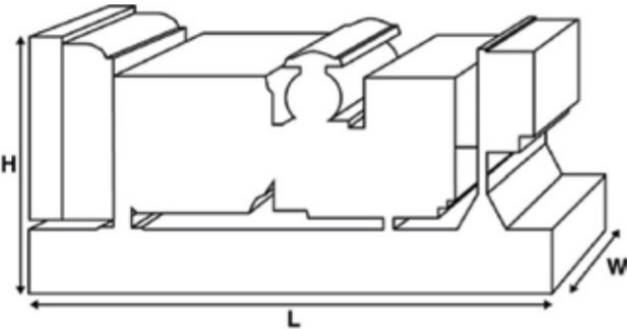
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Output Ratings

Voltage, Frequency		Prime	Standby
400/230V, 50 Hz	kVA	300	330
	kW	240	264
480/277V, 60 Hz	kVA		
	kW		

Ratings at 0.8 power factor.

generator set outputs per voltage.



Canopied Dimensions

Length	mm	3975
Width	mm	1400
Height	mm	2000

BS5000 and NEMA MG-1.22.

Prime Rating

Standby Rating

Standard Reference Conditions

Options available include:

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- Additional alarms and shutdowns
- A selection of exhaust silencer noise levels

P330-5



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Ratings and Performance Data			
Engine Make		Perkins	
Engine Model:		1506A-E88TAG5	
Alternator Make		Leroy Somer	
Alternator Model:		LL5114J	
Base Frame:		Heavy Duty Fabricated Steel	
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres	694	
Fuel Consumption Prime	litres (US gal)	62.8 (16.6)	
Fuel Consumption Standby	litres (US gal)	70(18.5)	
Engine Technical Data			
No. of Cylinders		6	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore	mm (in)	112(4.4)	
Stroke	mm (in)	149(5.9)	
Induction		TURBOCHARGED AIR TO AIR	
Cooling Method		CHARGE COOLED WATER	
Governing Type		ELECTRONIC	
Governing Class		ISO 8528 G2	
Compression Ratio		16.1:1	
Displacement	L (cu. in)	8.8 (537)	
Moment of Inertia:	kg m² (lb/in²)	2.4031 (8212)	
Voltage		24	
Ground		Negative	
Battery Charger Amps		45	
Engine Weight Dry	kg (lb)	778(1715)	
Engine Weight Wet	kg (lb)	800(1764)	
Engine Performance Data		50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	281(377)	
Gross Engine Power Standby	kW (hp)	307(412)	
BMEP Prime	kPa (psi)	2552 (370.2)	
BMEP Standby	kPa (psi)	2788 (404.4)	

P330-5

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Fuel System

Fuel Filter Type:			Replaceable Element		
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	70(18.5)	62.8 (16.6)	46.6 (12.3)	33.3 (8.8)
50 Hz Standby	l/hr (US gal/hr)	-	70 (18.5)	51.2 (13.5)	35.7 (9.4)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	-			

Air System

		50 Hz	60 Hz
Air Filter Type:		Paper Element	
Combustion Air Flow Prime	m³/min (cfm)	17 (600)	
Combustion Air Flow Standby	m³/min (cfm)	18.3 (646)	
Max. Combustion Air Intake Restriction	kPa	6.2 (24.9)	

Cooling System

		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	33.1626 (8.8)	
Water Pump Type:		Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	115(6540)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	125(7109)	
Heat Radiation to Room*: Prime	kW (Btu/min)	33.1 (1882)	
Heat Radiation to Room*:	kW (Btu/min)	34.8 (1979)	
Standby Radiator Fan Load:	kW (hp)	7.7 (10.3)	
Radiator Cooling Airflow:	m³/min (cfm)	329.1 (11624)	
External Restriction to Cooling Airflow:	Pa (in H2O)	125(0.5)	

*: Heat radiated from engine and alternator

Lubrication System

Oil Filter Type:		Spin-on, Full flow
Total Oil Capacity:	l (US gal)	39(10.3)
Oil Pan Capacity:	l (US gal)	36(9.5)
Oil Type:		API CI-4 0W-30
Oil Cooling Method:		WATER

Exhaust System

		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	10 (3)	
Exhaust Gas Flow: Prime	m³/min (cfm)	45.1 (1593)	
Exhaust Gas Flow: Standby	m³/min (cfm)	50(1766)	
Exhaust Gas Temperature: Prime	°C (°F)	561 (1042)	
Exhaust Gas Temperature: Standby	°C (°F)	574 (1065)	



P330-5

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Alternator Physical Data

No. of Bearings:	1
Insulation Class:	H
Winding Pitch:	2/3
Winding Code	6
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R250

Alternator Operating Data

Overspeed: rpm		2250
Voltage Regulation: (Steady state)		+/- 0.5
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:		2
Total Harmonic content LL/LN:		2
Radio Interference:		EN61000-6
Radiant Heat: 50 Hz	kW (Btu/min)	17.8 (1012)
Radiant Heat: 60 Hz	kW (Btu/min)	

Alternator Performance Data 50 Hz:

		415/240 V	400/230 V	380/220 V	
Voltage Code			230/115 V		
			230V		
Motor Starting	kVA	672	636	588	
Capability* Short Circuit	%	300	300	300	300
Capacity** Reactances	Xd	3.588	3.863	4.137	
	X'd	0.279	0.3	0.321	
	X''d	0.15	0.15	0.161	

Alternator Performance Data 60 Hz

Voltage Code						
Motor Starting	kVA					
Capability* Short Circuit	%	300	300	300	300	300
Capacity** Reactances	Xd					
	X'd					
	X''d					

*Based on 30% voltage dip at 0.6 power factor.



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P330-5

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Dealer Contact Details

	standby
	kW
	264
	264
	255.2
	264

Documentation

Generator Set Standards

Warranty

220/120	
220/110	