

Model: PD20P  Perkins  LEROY SOMER

Powered By: PERKINS 404D-22G, 20 Kva @ 50Hz

400 Series 4 Cylinder

		Generator Set Performance	
		20 KVA	
		P.R.P (1)	Standby (2)
Rated Output	KVA	20	22
Active Power Output @ phi=0.8	KW	16	17.6
Rated Speed	r.p.m	1500	
Standard Voltage	V	400/230	
Voltage available	V	380/220 - 415/240 - 440/254 - 230/132	
Phases		3	
Frequency		50 Hz	
Circuit Breaker	A	32	

(1) Prime Power (P.R.P) - ISO 8528: Prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power, 10% overload available for governing purpose only.

(2) Max-Standby Power - ISO 3046: Power available for use at variable loads for limited annual time (500hr), within the following limits of maximum operating time: 100% loads 25hr per year - 80% loads 200hr per year NO overload available. Applicable in case of failure of the main in areas of reliable electrical network: Power reduction according to DIN ISO 3046. Standard values: Above 100m altitude approx 1% per 100m. Above 25°C (77° F) approx. 4% per 10°C (50° F).

Engine Specification

Rated Output		
Manufacturer		Perkins
Engine Model		404D-22G
4 Stroke Diesel Engine - Combustion System		Direct Injection
Aspire Type		Naturally
"Cylinders, number and disposition"		3 - inline
Bore x Stroke	mm	84 x 100
Total Displacement	L	2.216
Cooling System		Water
Lube Oil Specification		15W40 to ACEA E3 or API CH4
Compression Ratio		23.3:1
Fuel Consumption (at 100% load)	L/Hr	3.7
Specific Oil Consumption (at full load)	L	<0.3%
Lube oil Capacity	L	10.6
Total Coolant Capacity	L	7
Speed Governer	Type	Mechanical
Electric Circuit Voltage	V	12V
Starting System		Electric
Engine Derating		1.0
Cooling Fan	Type	Mechanical
Air Filter	Type	Dry

The above performance data are valid as per the following spec:
 - Diesel Fuel is according to BS2869 Class A2 or equivalent
 - The coolant should be 50% antifreeze and 50% fresh water



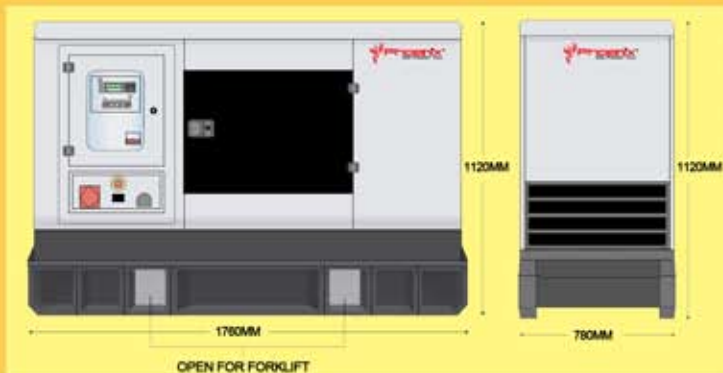
Synchronous Generator*

Poles	No.s	4
Terminals	No.s	12
Revolution Speed		1500 rpm
Insulation	Class	H
Enclosure (according to IEC-34-5)		IP23
Maximum Admitted Overload		10% for 1 hour every 12 hours of running
Alternator Derating		1.0
Voltage Regulation		AVR (Electronic)
Steady Voltage Precision		within $\pm 1.5\%$ from no load to full loading with $\cos 0.8$

*Alternator used by PHOENIX Gensets meet the standard requirements.

Generator Set Options and Accessories

Engine	Alternator	Generator Set
Lub oil heater	Anti-condensation heater	Battery charger
Water jacket heater	PMG excitation	Enclosure: aluminum, steel or weather protective
Electronic governor	Single phase	Export box packing
		Synchronizing panel
Fuel System	Cooling System	Main line circuit breaker
12 hours dual wall sub-base tank	50C (122F) ambient cooling	AMF panel
24 hours dual wall sub-base tank	Remote radiator cooling	Digital panel
Single wall sub-base tank		Automatic transfer switches
External fuel tank		Extended warranty up to 5 years



Generating Set Transport Data

Length	m - ft	1.36 - 4.46
Width	m - ft	0.60 - 1.97
Height	m - ft	1.20 - 3.90
Dry Weight (With Standard Accessories)	kg - lb	505 - 1011

Weight And Dimensions OPEN GENSET