

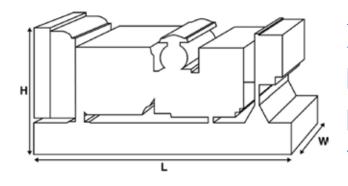
P375-4

Output Ratings						
Voltage, Frequency		Prime	Standby			
	kVA kW					
480/277V, 60 Hz	kVA kW	343.8 275.04	375 300			



Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.



Dimension	ns and Weights	
Length	mm	2785 (109.6)
Width	mm	1071 (42.2)
Height	mm	1818 (71.6)
Weight (Dry)	kg	2228 (4912)
Weight (Wet)	kg	2261 (4985)

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1.22. Generator set pictured may include optional accessories.

Prime Rating

These ratings are applicable for supplying continuous electrical 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.

Standby Rating

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. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

FG Wilson offer a range of optional features to allow you to tailor our generator sets to meet your power needs. Options available include:

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- A variety of generator set control and synchronising panels
- Additional alarms and shutdowns
- A selection of exhaust silencer noise levels

For further information on all of the standard and optional features accompanying this product please contact your local Dealer or visit:

www.fgwilson.com



Engine Make		Perkins				
Engine Model:		1506D-E88TAG4				
Alternator Make		FG Wilson				
Alternator Model:		FG26A250				
Control Panel:		Power Wizard 1.1+				
Base Frame:		Heavy Duty Fabricated S	Steel			
Circuit Breaker Type:		3 Pole MCCB				
Frequency:		50 HZ	60 HZ			
Engine Speed: RPM	rpm		1800			
Fuel Tank Capacity:	litres (US gal)	528 (139.48)				
Fuel Consumption Prime	litres (US gal)/hr		73.3 (19.4)			
Fuel Consumption Standl	by litres (US gal)/hr		80.5 (21.3)			
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 CHARGE COOLED				
Cooling Method		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)				
F : D (D :	50.11	60.11			
Engine Performar		50 Hz	60 Hz			
Engine Speed	rpm		1800			
Gross Engine Power Prime			325 (436)			
Gross Engine Power Stand			358 (480)			
BMEP Prime	kPa (psi)		2460 (356.8)			
BMEP Standby	kPa (psi)		2710 (393)			

Exhaust Gas Flow: Prime

Exhaust Gas Flow: Standby

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

m³/min (cfm) m³/min (cfm)

°C (°F)

 $^{\circ}\text{C (}^{\circ}\text{F)}$



66.3 (2341)

70.3 (2483)

476 (889)

501 (934)

Fuel Filter Type:				Replaceable Eler	nent	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)		1.0 % 2000	100 /0 2000	75 70 2000	30 /0 2000
50 Hz Standby	l/hr (US gal/hr)		_			
60 Hz Prime	l/hr (US gal/hr)		80.5 (21.3)	73.3 (19.4)	55.3 (14.6)	39.4 (10.4)
60 Hz Standby	l/hr (US gal/hr)		-	80.5 (21.3)	59.9 (15.8)	42.1 (11.1)
(Based on diesel fuel with a sp			to BS2869, class A2	00.5 (21.5)	33.3 (13.0)	72.1 (11.1)
Air System			50	Hz	60 Hz	
Air Filter Type:					Paper Element	
Combustion Air Flow Prime	e r	m³/min (cfm)			26.4 (932)	
Combustion Air Flow Stand		m³/min (cfm)			26.9 (950)	
Max. Combustion Air Intake	e Restriction k	:Pa			6.2 (24.9)	
Cooling System			50	Hz	60 Hz	
		l (US gal)	,	33.1626 (8.8)		3.8)
Water Pump Type:					Centrifugal	
Heat Rejected to Water & L	ube Oil: Prime	kW (Btu/min)			104 (5914)
-		kW (Btu/min)			120 (6824)
Heat Radiation to Room*: F	Prime	kW (Btu/min)			10 (569)	
Heat Radiation to Room*: S	Standby	kW (Btu/min)			13 (739)	
Radiator Fan Load:		kW (hp)			13.2 (17.7)	1
Radiator Cooling Airflow:		m³/min (cfm)			438 (1546	6)
External Restriction to Cool	ling Airflow:	Pa (in H2O)			125 (0.5)	
*: Heat radiated from engine a Designed to operate in ambie Contact your local FG Wilson D	nt conditions up to		e conditions.			
Lubrication System	<u>1</u>					
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	



Alternator Physical Data	
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch:	2/3
Winding Code	R1
Wires:	12
Ingress Protection Rating:	IP21
Excitation System:	SHUNT
AVR Model:	A106 MKII
dependant on voltage code selected	
Alternator Operating Data	
Overspeed: rpm	2250
V. I. D. L.: (C. L)	. / 10

Alternator Operating Data	1	
Overspeed: rpm		2250
Voltage Regulation: (Steady state)	%	+/- 1.0
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:	%	2
Total Harmonic content LL/LN:	%	3
Radio Interference:		EN61000-6
Radiant Heat: 50 Hz	kW (Btu/min)	
Radiant Heat: 60 Hz	kW (Btu/min)	0 ()
Radiant Heat: 60 Hz	kW (Btu/min)	0 ()

Alternator Performance Data 50 Hz:

Voltage Code

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

Alternator Performance Data 60 Hz							
		480/277 V	380/220 V			440/254 V	
Voltage Code		240/139 V				220/127 V	
Motor Starting Capability*	kVA	1437	900			1206	
Short Circuit Capacity**	%	300	300	300	300	300	
Reactances	Xd	3.015	4.565			3.588	
	X'd	0.078	0.119			0.093	
	X"d	0.076	0.114			0.089	

Reactances shown are applicable to prime ratings.

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

^{**} With optional independant excitation system (PMG / AUX winding)

P375-4



Output Ratings	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V					
400/230V					
380/220V					
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	60 Hz				
Output natings	00112	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
480/277V	343.8	275	375	300	
440/254V	343.8	275	375	300	

Voltage Code	kVA	kW	kVA	kW
480/277V	343.8	275	375	300
440/254V	343.8	275	375	300
416/240V				
400/230V				
380/220V	326.3	261	358.8	287.04
240/139V	343.8	275	375	300
240/120V				
230/115V				
220/127V	343.8	275.04	375	300
220/110V				
208/120V				
240/120				
220/110				





P375-4

Deale	r Contact D	etails			

Documentation

Operation and maintenance manual including circuit wiring diagrams.

Generator Set Standards

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

Warranty

6.8 – 750 kVA electric power generation products in prime applications the warranty period is 12 months from date of start-up, unlimited hours (8760). For standby applications the warranty period is 24 months from date of start-up, limited to 500 hours per year.

730 – 2500 kVA electric power generation products in prime applications the warranty period is 12 months from date of start-up, unlimited hours (8760 hours) or 24 months from date of start-up, limited to 6000 hours. For standby applications the warranty period is 36 months from date of start-up, limited to 500 hours per year.

FG Wilson manufactures product in the following locations:

Northern Ireland • Brazil • China • India

With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network. To contact your local Sales Office please visit the FG Wilson website at www.fgwilson.com.

FG Wilson is a trading name of Caterpillar (NI) Limited.