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P150-1

Output Ratings		
Generating Set Mo	del Prime*	Standby*
380-415V,50Hz	135.0 kVA / 108.0 kW	150.0 kVA / 120.0 kW
480V, 60 Hz	150.0 kVA / 120.0 kW	165.0 kVA / 132.0 kW

Ratings at 0.8 power factor.

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.

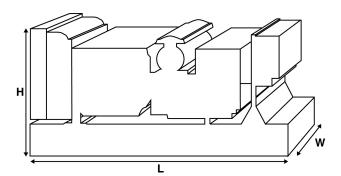




Image for illustration purposes only.

Ratings and Performance Data	a		
Engine Make & Model:		Perkins 1006TA	G
Alternator manufactured for FG Wilson by:		Leroy Somer	
Alternator Model:		LL3014F	
Control Panel:		PowerWizard 1.	1
Base Frame:		Fbc2 - (08Hr)	
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		1500	1800
Fuel Tank Capacity: litres (US gal)	349 (92.2)		
Fuel Consumption: I/hr (US gal/hr))		
(100% Load)	Prime	31.2 (8.2)	38.2 (10.1)
	Standby	34.4 (9.1)	41.5 (11.0)

Available Options

- I CE Certification
- I Sound Attenuated EC Enclosures
- I Control Panel Upgrades
- I Range of Silencers
- I Range of Remote Fuel Systems
- I Range of Alarms and Shutdowns

Dimensions ar	nd Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
2500 (98.4)	1120 (44.1)	1470 (57.9)	1602 (3533)	1640 (3616)
Dry = With Lube Oil Wet = With Lube Oil and Coolant				

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1/22. Generating set pictured may include optional accessories.

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Engine Technical Data		
No. of Cylinders / Alignment:	6 / In Line	
Cycle:	4 Stroke	
Bore / Stroke: mm (in)	100.0 (3.9)/127.0 (5.0)	
Induction:	Turbocharged Air To Air Charge Cooled	
Cooling Method:	Water	
Governing Type:	Electronic	
Governing Class:	ISO 8528 G2	
Compression Ratio:	17.0:1	
Displacement: I (cu. in)	6.0 (365.5)	
Moment of Inertia: kg m² (lb/in²)	1.61 (5502)	
Engine Electrical System:		
Voltage / GroundBattery Charger Amps	12/Negative 55	
Weight: kg (lb) - Dry - Wet	586 (1292) 630 (1389)	

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Gross Engine Power	: kW (hp)		
	- Prime	134.6 (181.0)	150.0 (201.0)
	- Standby	145.8 (196.0)	163.5 (219.0)
BMEP: kPa (psi)			
	- Prime	1800.0 (261.0)	1671.0 (242.3)
	- Standby	1949.0 (282.7)	1822.0 (264.2)

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Fuel Filter Type:Replaceable ElementRecommended Fuel:Class A2 Diesel

Fuel Consumption: I/hr (US gal/hr)

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	34.4 (9.1)	31.2 (8.2)	24.2 (6.4)	17.4 (4.6)
60 Hz	41.5 (11.0)	38.2 (10.1)	30.0 (7.9)	21.7 (5.7)

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50 Hz		34.4 (9.1)	26.5 (7.0)	18.9 (5.0)
60 Hz		41.5 (11.0)	32.5 (8.6)	23.4 (6.2)

(Based on diesel fuel with a specific gravity of 0.84 and conforming to BS2869, Class A2) $\,$

Air Systems		50 Hz	60 Hz
Air Filter Type:		Replaceable Element	
Combustion Air Flow: m³/min (cfm)			
	- Prime	8.4 (296)	10.7 (379)
	- Standby	8.8 (310)	11.2 (394)
Max. Combustion Air Intate Restriction: kPa (in H ₂ O)		5.0 (20.1)	5.0 (20.1)

Cooling System	50 Hz	60 Hz
Cooling System Capacity: I (US gal)	37.2 (9.8)	37.2 (9.8)
Water Pump Type:	Cent	rifugal
Heat Rejected to Water & Lube Oil:		
kW (Btu/min) - Prime	65.5 (3725)	68.0 (3867)
- Standby	70.0 (3981)	76.7 (4362)
Heat Radiation to Room: Heat radiated from	n engine and alternato	r
kW (Btu/min) - Prime	15.4 (876)	19.0 (1081)
- Standby	25.7 (1462)	33.6 (1911)
Radiator Fan Load: kW (hp)	4.5 (6.0)	8.0 (10.7)
Radiator Cooling Airflow: m³/min (cfm)	192.0 (6780)	244.0 (8617)
External Restriction to Cooling Airflow: Pa (in H ₂ O)	125 (0.5)	125 (0.5)

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: I (US gal)	19.0 (5.0)
Oil Pan: I (US gal)	16.0 (4.2)

API CD 15W-40

Water

551 (1024)

Oil Type:

Oil Cooling Method:

Cooling system designed to operate in ambient conditions up to 50°C (122°F). Contact your local FG Wilson Dealer for power ratings at specific site conditions.

Exhaust System	50 Hz	60 Hz
Silencer Type:	Indu	ıstrial
Silencer Model & Quantity:	SD1	00 (1)
Pressure Drop Across Silencer System: kPa (in Hg)	4.00 (1.181)	4.00 (1.181)
Silencer Noise Reduction Level: dB	12	12
Maximum Allowable Back Pressure: kPa (in Hg)	6.0 (1.8)	6.0 (1.8)
Exhaust Gas Flow: m³/min (cfm)		
- Prime	24.0 (848)	29.8 (1051)
- Standby	25.7 (908)	31.4 (1109)
Exhaust Gas Temperature: °C (°F)		
- Prime	571 (1060)	540 (1004)

- Standby 585 (1085)

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL3014F
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch Code:	2/3 - 6
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R250

Alternator Operating Data					
Overspeed: rpm	2250				
Voltage Reguation: (Steady state)	+/- 0.5				
Wave Form NEMA = TIF:	50				
Wave Form IEC = THF:	2.0%				
Total Harmonic content LL/LN:	4.0%				
Radio Interference:	Suppression is in line with Europear Standard EN61000-6				
Radiant Heat: kW (Btu/min)					
- 50 Hz	10.2 (580)				
- 60 Hz	11.3 (643)				

Alternator Performance Data:	50 Hz			60 Hz					
Data Item	415/240V	400/230V 230/115V 200/115V	380/220V 220/110V	220/127V	480/277V 240/139V	380/220V 220/110V	240/120V 208/120V	230/115V	440/254V 220/127V
Motor Starting Capability* kVA	329	309	283	362	360	241	283	264	311
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	2.640	2.850	3.150	2.180	2.640	4.200	3.510	3.790	3.140
X'd	0.090	0.100	0.110	0.080	0.090	0.150	0.120	0.130	0.110
X"d	0.055	0.059	0.065	0.045	0.055	0.087	0.073	0.079	0.065

Reactances shown are applicable to prime ratings.

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

**With optional permanent magnet generator or AREP excitation.

Voltage Technical Data 50 Hz						
Voltage	Priı	ne:	Standby:			
	kVA	kW	kVA	kW		
415/240V	135.0	108.0	150.0	120.0		
400/230V	135.0	108.0	150.0	120.0		
380/220V	135.0	108.0	150.0	120.0		
230/115V	135.0	108.0	150.0	120.0		
220/127V	125.0	100.0	138.0	110.4		
220/110V	135.0	108.0	150.0	120.0		
200/115V	135.0	108.0	150.0	120.0		

Voltage Technical Data 60 Hz						
Voltage	Pri	me:	Standby:			
	kVA	kW	kVA	kW		
480/277V	150.0	120.0	165.0	132.0		
220/127V	150.0	120.0	165.0	132.0		
380/220V	150.0	120.0	165.0	132.0		
240/120V	150.0	120.0	165.0	132.0		
230/115V	150.0	120.0	165.0	132.0		
440/254V	150.0	120.0	165.0	132.0		
220/110V	150.0	120.0	165.0	132.0		
208/120V	150.0	120.0	165.0	132.0		
240/139V	150.0	120.0	165.0	132.0		

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