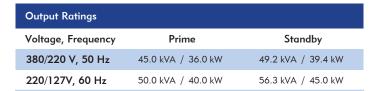


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P56-1



Ratings at 0.8 power factor.

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

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.

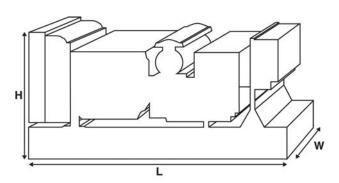




Image for illustration purposes only.

Ratings and Performance Do	ata		
Engine Make & Model:		Perkins 1103A-3	33TG1
Alternator manufactured for FG Wilson by:	•	WEG	
Alternator Model:		GTA 201 AE20	
Control Panel:		PowerWizard 1.1	l
Base Frame:		Heavy Duty Fabi	ricated Steel
Circuit Breaker Type:		3 Pole MCB / 3 Pole MCCB	
Frequency:		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Fuel Tank Capacity: litres (US gal)		145 (38.3)	
Fuel Consumption: I/hr (US gal/	/hr)		
(100% Load)	- Prime	10.8 (2.9)	11.9 (3.1)
	- Standby	12.0 (3.2)	13.6 (3.6)

Available Options

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

- 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

Dimensions an	nd Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
1680 (66.1)	760 (29.9)	1333 (52.5)	814 (1795)	826 (1821)
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. Generator set pictured may include optional accessories.

Engine Technical Data	
No. of Cylinders / Alignment:	3 / In Line
Cycle:	4 Stroke
Bore / Stroke: mm (in)	105.0 (4.1)/127.0 (5.0)
Induction:	Turbocharged
Cooling Method:	Water
Governing Type:	Mechanical
Governing Class:	ISO 8528 G2
Compression Ratio:	17.25:1
Displacement: I (cu. in)	3.3 (201.4)
Moment of Inertia: kg m² (lb/in²)	1.14 (3896)
Engine Electrical System:	
- Voltage / Ground	12/Negative
- Battery Charger Amps	65
Weight: kg (lb) - Dry	341 (752)
- Wet	348 (767)

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Gross Engine Powe	er: kW (hp)		
	- Prime	42.2 (57.0)	50.5 (68.0)
	- Standby	46.5 (62.0)	55.6 (75.0)
BMEP: kPa (psi)			
	- Prime	1023.0 (148.4)	1020.0 (148.0)
	- Standby	1127.0 (163.5)	1124.0 (163.0)

Fuel System	
Fuel Filter Type:	Replaceable Element

Recommended Fuel: Class A2 Diesel or BSEN590

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

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	12.0 (3.2)	10.8 (2.9)	8.0 (2.1)	5.6 (1.5)
60 Hz	13.6 (3.6)	11.9 (3.1)	9.1 (2.4)	6.6 (1.7)

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	12.0 (3.2)	8.7 (2.3)	6.0 (1.6)
60 Hz	13.6 (3.6)	10.0 (2.6)	7.2 (1.9)

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2) $\,$

Air Systems	50 Hz	60 Hz
Air Filter Type:	Replaceal	ble Element
Combustion Air Flow: m³/min (cfm)		
- Prime	2.9 (102)	3.7 (131)
- Standby	3.1 (109)	3.9 (138)
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)	8.0 (32.1)	8.0 (32.1)

Cooling System		50 Hz	60 Hz
Cooling System Capacity: I (US	gal)	10.2 (2.7)	10.2 (2.7)
Water Pump Type:		Centrifugal	
Heat Rejected to Water & Lub	e Oil:		
kW (Btu/min)	- Prime	26.1 (1484)	31.0 (1763)
	- Standby	30.0 (1706)	34.0 (1934)
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min)	- Prime	11.6 (660)	13.4 (762)
	- Standby	14.9 (847)	16.1 (916)
Radiator Fan Load: kW (hp)		0.5 (0.7)	0.9 (1.2)
Radiator Cooling Airflow: m³/mi	in (cfm)	86.4 (3051)	105.6 (3729)
External Restriction to Cooling Airflow: Pa (in H ₂ O)		120 (0.5)	120 (0.5)

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: I (US gal)	8.3 (2.2)
Oil Pan: I (US gal)	7.8 (2.1)
Oil Type:	API CG4 / CH4 15W-40
Oil Cooling Method:	Water

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	
	10.0 (3.0)	15.0 (4.4)	
Exhaust Gas Flow: m³/min (cfm)			
- Prime	7.0 (247)	8.8 (311)	
- Standby	7.7 (272)	9.5 (335)	
Exhaust Gas Temperature: °C (°F)			
- Prime	492 (918)	510 (950)	
- Standby	537 (999)	551 (1024)	

Alternator Physical Data	
Manufactured for FG Wilson by:	WEG
Model:	GTA 201 AE20
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch Code:	2/3 - NA
Wires:	12
Ingress Protection Rating:	IP21
Excitation System:	AUX COIL
AVR Model:	WRGA-01

Alternator Operating Data				
Overspeed: rpm	2250			
Voltage Regulation: (Steady state)	+/- 0.5%			
Wave Form NEMA = TIF:	50			
Wave Form IEC = THF:	2.0%			
Total Harmonic content LL/LN:	5.0%			
Radio Interference:	Suppression is in line with European Standard EN61000-6			
Radiant Heat: kW (Btu/min)				
- 50 Hz	6.9 (392)			
- 60 Hz	7.1 (404)			

Alternator Performance Data:	50 Hz	60 Hz	
Data Item	380/220V	208/120V 220/127V	
Motor Starting Capability* kVA	115	112 127	
Short Circuit Capacity** %	300	300 300	
Reactances: Per Unit			
Xd	2.340	2.830 2.420	
X'd	0.145	0.166 0.146	
X"d	0.104	0.118 0.104	

Output Ratings Technical Data 50 Hz					
Voltage	Prime:		Standby:		
	kVA	kW	kVA	kW	
380/220V	45.0	36.0	49.2	39.4	

Output Ratings Technical Data 60 Hz						
Voltage	Prime:		Standby:			
	kVA	kW	kVA	kW		
220/127V	50.0	40.0	56.3	45.0		
208/120V	50.0	40.0	56.3	45.0		

Reactances shown are applicable to prime ratings.
*Based on 30% voltage dip at 0.6 power factor and SHUNT excitation.
**With optional permanent magnet generator or AREP excitation.

Documentation A full set of operation and maintenance manuals and circuit wiring diagrams. **Generator Set Standards** The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22. FG Wilson is a fully accredited ISO 9001 company. Warranty All prime equipment carries a one year manufacturer's warranty. Standby equipment, limited to 500 running hours per year, has a two year manufacturer's warranty. For details on warranty cover please contact your local Dealer, or visit our website: FGWilson.com. Dealer contact details:

FG Wilson manufactures product in the following locations:

Northern Ireland • Brazil • China • India • USA

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.

General Information