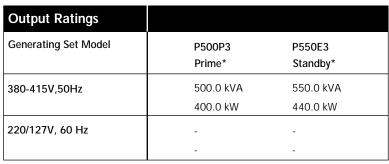
P500P3 / P550E3



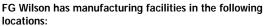


^{*} Refer to ratings definitions on page 4. Ratings at 0.8 power factor.

Technical Data			
Engine Make & Model:	Perkins 2506A-E15TAG2		
Alternator Model:	LL6114F		
Base Frame Type:	Heavy Duty Fabricated Steel		
Circuit Breaker Type:	3 Pole MCCB		
Frequency:	50 Hz 60 Hz		
Engine Speed: RPM	1500 -		
Fuel Tank Capacity: litres (US gal)	928 (245.2)		
Fuel Consumption: P500P3 I/hr (US gal/hr)	97.2 (25.7)		
Fuel Consumption: P550E3 I/hr (US gal/hr)	106.8 (28.2)		







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Engine Technical Data

Physical Data				Air System		50 Hz	60 Hz
Manufacturer:			Perkins	Air Filter Type:		Paper Eleme	ent 18"
Model:		25	06A-E15TAG2	Combustion Air Flo	DW:		
No. of Cylinders/Ali	gnment:		6 / In Line	m³/min (cfm)	-Standby:	32.0 (1130)	_
Cycle:	J		4 Stroke	, (6)	-Prime:	30.5 (1077)	_
nduction:		Turbo	charged Air To Air	Max. Combustion	Air Intake	30.3 (1077)	
			Charge Cooled	Restriction: kPa (6.2 (24.9)	
				Radiator Cooling		0.2 (24.7)	
Cooling Method:			Water		All FlOW.	((0 0 (00000)	
Governing Type:			Electronic	m³/min (cfm)		660.0 (23308)	-
Governing Class:		ļ	ISO 8528 G2	External Restriction			
Compression Ratio:	:		16.0:1	Cooling Air Flow:	Pa (in H ₂ O)	125 (0.5)	-
Displacement: I (cu	ı.in)		15.2 (927.6)				(0.11
Bore/Stroke: mm (ir	n)	135.0) (5.3)/167.0 (6.6)	Cooling Syster	n	50 Hz	60 Hz
Moment of Inertia:	kg m² (lb. in²)	4.29 (14660)	Cooling System Co	angoitu.		
Engine Electrical Sy	stem:			Cooling System Ca	ірасіту.	00.0 (45.3)	
-Voltage	/Ground:		24/Negative	I (US gal)		38.3 (10.1)	-
-Battery Charge	er Amps:		70	Water Pump Type:		Centrifu	ugal
Weight: kg (lb) - Dr	ry:		1633 (3600)	Heat Rejected to V			
- We	et:		1714 (3779)	Lube Oil: kW (Btu			
					-Standby:	166.0 (9440)	-
Performance		50 Hz	60 Hz		-Prime:	157.0 (8928)	-
ingine Speed: RPM	Л	1500		Heat Radiation to	Room:		
Gross Engine Powe		1500	-	kW (Btu/min)	-Standby:	49.0 (2787)	-
oross Engine rowe	-Standby:	407.0 // 52	0)		-Prime:	47.0 (2673)	-
	-Stariuby.	487.0 (653	.0) -	Radiator Fan Load	. k/// (hn)	4 (0 (04 =)	
	Drimo:	4420/504	0)	Radiator Fair Load	i. Kw (lip)	16.0 (21.5)	-
OMED, kDo (poi)	-Prime:	443.0 (594	.0) -		•	16.0 (21.5) imbient conditions up to	- 50°C (122°F)
BMEP: kPa (psi)		`	,	Cooling system desig	ned to operate in a	, ,	
BMEP: kPa (psi)	-Standby:	2717.0 (394	1.0) -	Cooling system desig Contact your local FC	ned to operate in a 6 Wilson dealer for	imbient conditions up to	
·	-Standby: -Prime:	2717.0 (394 2471.0 (358	1.0) -	Cooling system desig	ned to operate in a 6 Wilson dealer for	imbient conditions up to	
·	-Standby: -Prime:	2717.0 (394	1.0) -	Cooling system desig Contact your local FC Lubrication Sy	ned to operate in a 6 Wilson dealer for	imbient conditions up to power ratings at specific	site conditio
·	-Standby: -Prime:	2717.0 (394 2471.0 (358	1.0) -	Cooling system desig Contact your local FG Lubrication Sy Oil Filter Type:	ned to operate in a 6 Wilson dealer for stem	imbient conditions up to power ratings at specific Eco, Full	site conditio
Regenerative Powe	-Standby: -Prime:	2717.0 (394 2471.0 (358	1.0) -	Cooling system desig Contact your local FC Lubrication Sy Oil Filter Type: Total Oil Capacity	ned to operate in a G Wilson dealer for stem	power ratings at specific Eco, Full 62.0 (16	site conditio
Regenerative Powe	-Standby: -Prime:	2717.0 (394 2471.0 (358	1.0) -	Cooling system desig Contact your local FC Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal):	ned to operate in a G Wilson dealer for stem	imbient conditions up to power ratings at specific Eco, Full	site conditio
Regenerative Power	-Standby: -Prime:	2717.0 (394 2471.0 (358 50.0	i.0) - 3.4) -	Cooling system desig Contact your local FG Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type:	ned to operate in a G Wilson dealer for stem	power ratings at specific Eco, Full 62.0 (16	Flow 6.4)
Regenerative Power Fuel System Fuel Filter Type:	-Standby: -Prime: r: kW	2717.0 (394 2471.0 (358 50.0 Replaceable	F.0) - 3.4) - - Element	Cooling system desig Contact your local FC Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal):	ned to operate in a G Wilson dealer for stem	embient conditions up to power ratings at specific Eco, Full 62.0 (16 53.0 (14	Flow 5.4)
Regenerative Power Fuel System Fuel Filter Type: Recommended Fue	-Standby: -Prime: r: kW	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die	F.0) - 3.4) - - Element	Cooling system desig Contact your local FG Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type:	ned to operate in a G Wilson dealer for stem	Eco, Full 62.0 (16 API CI4 15	Flow 5.4)
Regenerative Power Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption:	-Standby: -Prime: r: kW el: I/hr (US gal/h	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die	Element sel	Cooling system desig Contact your local FG Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type:	ned to operate in a 6 Wilson dealer for stem	Eco, Full 62.0 (16 API CI4 15	Flow 5.4)
Regenerative Power Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption:	-Standby: -Prime: r: kW el: l/hr (US gal/h	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die	Element sel	Cooling system desig Contact your local FG Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method:	ned to operate in a 6 Wilson dealer for stem	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate	Flow 5.4) 1.0) W-40
Regenerative Power Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load	-Standby: -Prime: r: kW	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die	Element sel	Cooling system desig Contact your local FC Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System	ned to operate in a 6 Wilson dealer for stem I (US gal):	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load	-Standby: -Prime: r: kW el: I/hr (US gal/h	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 75 ad Loa	Element sel 50% Load	Cooling system desig Contact your local Fo Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & C	ned to operate in a S Wilson dealer for stem I (US gal):	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3	-Standby: -Prime: r: kW el: I/hr (US gal/h	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 75 ad Loa	Element sel 50% ad Load	Cooling system desig Contact your local Fo Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & G Pressure Drop Acro	ned to operate in a 6 Wilson dealer for stem I (US gal):	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3	-Standby: -Prime: r: kW el: I/hr (US gal/h	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 75 ad Loa	Element sel 50% Load	Cooling system desig Contact your local For Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro- Silencer System:	ned to operate in a 6 Wilson dealer for stem I (US gal): The control of the con	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3	-Standby: -Prime: r: kW el: I/hr (US gal/h	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 75 ad Loa	Element sel 50% Load	Cooling system desig Contact your local For Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro Silencer System: Silencer Noise Red	ned to operate in a 6 Wilson dealer for stem I (US gal): The control of the con	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate 50 Hz Level SD150 0.34 (0.100)	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3 50 Hz 106.8 (28)	-Standby: -Prime: r: kW el: I/hr (US gal/h	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 75 ad Loa	Element sel 50% Load	Cooling system desig Contact your local For Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro Silencer System: Silencer Noise Red Level: dB	ned to operate in a 6 Wilson dealer for stem I (US gal): Dty: Dss kPa (in Hg)	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Regenerative Power Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3 50 Hz 106.8 (28) 50 Hz -	-Standby: -Prime: r: kW el: l/hr (US gal/h Loa 8.2) 97.2 (:	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 0% 75 ad Loa	Element sel 50% ad Load 19.4) 50.4 (13.3)	Cooling system desig Contact your local FO Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro Silencer System: Silencer Noise Red Level: dB Max. Allowable Ba	med to operate in a sewilson dealer for stem I (US gal): The control of the con	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate 50 Hz Level SD150 0.34 (0.100)	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Regenerative Power Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3 60 Hz 106.8 (28) 60 Hz -	-Standby: -Prime: r: kW el: I/hr (US gal/h	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 0% 75 ad Loa	Element sel 50% ad Load 19.4) 50.4 (13.3)	Cooling system desig Contact your local For Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro Silencer System: Silencer Noise Red Level: dB Max. Allowable Ba Pressure: kPa (in.	ned to operate in a G Wilson dealer for stem I (US gal): Oty: Oss kPa (in Hg) luction ck Hg)	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate 50 Hz Level SD150 0.34 (0.100)	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load	-Standby: -Prime: r: kW el: l/hr (US gal/h Loa 8.2) 97.2 (:	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 0% 75 ad Loa	Element sel 50% ad Load 19.4) 50.4 (13.3)	Cooling system desig Contact your local For Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro Silencer System: Silencer Noise Red Level: dB Max. Allowable Ba Pressure: kPa (in. Exhaust Gas Flow:	ned to operate in a G Wilson dealer for stem I (US gal): Oty: Oss kPa (in Hg) luction ck Hg)	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate 50 Hz Level SD150 0.34 (0.100)	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3 50 Hz 106.8 (28) 50 Hz -	-Standby: -Prime: r: kW el: I/hr (US gal/h Loa 8.2) 97.2 (:	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 0% 75 ad Loa 25.7) 73.6 (Element sel 50% ad Load 19.4) 50.4 (13.3)	Cooling system desig Contact your local For Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro Silencer System: Silencer Noise Red Level: dB Max. Allowable Ba Pressure: kPa (in. Exhaust Gas Flow:	ned to operate in a G Wilson dealer for stem I (US gal): Oty: Oss kPa (in Hg) luction ck Hg)	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate 50 Hz Level SD150 0.34 (0.100)	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3 50 Hz 106.8 (28) 50 Hz -	-Standby: -Prime: r: kW el: I/hr (US gal/h Loa 8.2) 97.2 (:	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 0% 75 ad Loa 25.7) 73.6 (Element sel 50% Load 19.4) 50.4 (13.3)	Cooling system desig Contact your local For Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro Silencer System: Silencer Noise Red Level: dB Max. Allowable Ba Pressure: kPa (in. Exhaust Gas Flow: m³/min (cfm)	ned to operate in a 6 Wilson dealer for stem I (US gal): The cost of the cos	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate 50 Hz Level SD150 0.34 (0.100) 15 6.8 (2.0)	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3 50 Hz 106.8 (28) 50 Hz P550E3 50 Hz (based on diesel fuel	-Standby: -Prime: r: kW el: I/hr (US gal/h Loa 8.2) 97.2 (:	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 0% 75 ad Loa 25.7) 73.6 (Element sel 50% Load 19.4) 50.4 (13.3)	Cooling system desig Contact your local For Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro Silencer System: Silencer Noise Red Level: dB Max. Allowable Ba Pressure: kPa (in. Exhaust Gas Flow:	ned to operate in a 6 Wilson dealer for stem I (US gal): The cost of the cos	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate 50 Hz Level SD150 0.34 (0.100) 15 6.8 (2.0) 87.0 (3072)	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4
Fuel System Fuel Filter Type: Recommended Fuel Fuel Consumption: 110% Load P500P3 50 Hz 106.8 (28) 50 Hz -	-Standby: -Prime: r: kW el: I/hr (US gal/h Loa 8.2) 97.2 (:	2717.0 (394 2471.0 (358 50.0 Replaceable Class A2 Die or) 0% 75 ad Loa 25.7) 73.6 (Element sel 50% Load 19.4) 50.4 (13.3)	Cooling system desig Contact your local For Lubrication Sy Oil Filter Type: Total Oil Capacity Oil Pan I (US gal): Oil Type: Cooling Method: Exhaust System Silencer Type: Silencer Model & O Pressure Drop Acro Silencer System: Silencer Noise Red Level: dB Max. Allowable Ba Pressure: kPa (in. Exhaust Gas Flow: m³/min (cfm)	ned to operate in a 6 Wilson dealer for stem I (US gal): The cost of the cos	Eco, Full 62.0 (16 53.0 (14 API CI4 15 Wate 50 Hz Level SD150 0.34 (0.100) 15 6.8 (2.0) 87.0 (3072)	Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4) Flow 6.4

Alternator Performance Data

	50 Hz			60 Hz					
Data Item	415/240V	400/230V 230/115V 200/115V	380/220V 220/110V	220/127V					
Motor Starting Capability* kVA	1296	1213	1106	1438					
Short Circuit Capacity** %	300	300	300	300					
Reactances: Per Unit									
Xd	2.850	3.070	3.400	2.330					
X'd	0.150	0.160	0.180	0.120					
X"d	0.103	0.111	0.123	0.084					

Alternator Technical Data

Physical Data		Operating Data	
Manufacturer:	FG WILSON	Overspeed: RPM	2250
Model:	LL6114F	Voltage Regulation (steady state) (%):	+/- 0.5
No. of Bearings:	1	Wave Form NEMA = TIF:	50
Insulation Class:	Н	Wave Form IEC = THF:	2.0%
Winding Pitch Code:	2/3 - 6	Total Harmonic Content LL/LN:	2.0%
Wires:	12	Radio Interference: Supression is in I EN61000-6	line with European Standard
Ingress Protection Rating:	IP23	Radiant Heat: kW (Btu/min)	
Excitation System:	SHUNT	-50 Hz:	26.7 (1518)
AVR Model:	R448	-60 Hz:	-

Reactances shown are applicable to prime ratings

* Based on 30% voltage dip. Improved motor starting capability is available with optional Permanent Magnet generator or AREP excitation.

** With optional Permanent Magnet generator or AREP excitation.

Technical Data

3 Phase Ratings and Performance at 50 Hz, 1500 RPM

3 Phase Ratings and Performance at 60 Hz, - RPM

Voltage	Prime Model P500P3		Standby Model P550E3		Voltage		Model -	Standby	/ Model -
	kVA	kW	kVA	kW		kVA	kW	kVA	kW
415/240V	500.0	400.0	550.0	440.0					
400/230V	500.0	400.0	550.0	440.0					
380/220V	500.0	400.0	550.0	440.0					
230/115V	500.0	400.0	550.0	440.0					
220/127V	460.0	368.0	506.0	404.8					
220/110V	500.0	400.0	550.0	440.0					
200/115V	500.0	400.0	550.0	440.0					

Definitions

Standby Rating

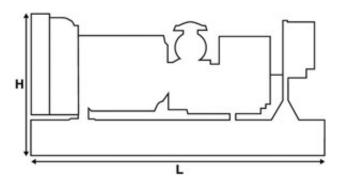
These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

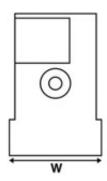
Prime Rating

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.

Standard Reference Conditions

Note: Standard reference conditions 27°C (80°F) Air Inlet Temp, 152.4m (500ft) A.S.L. 60% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.





Weights and Dimensions

	Dimensions: mm (in)			
3920 (8642)	Length	3700 (145.7)		
3958 (8726)	Width	1100 (43.3)		
4742 (10454)	Height	2143 (84.4)		
	3958 (8726)	3958 (8726) Width		