

Output Power Rating		Prime			Standby ***	
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	455	364	500	400
1800	60 Hz	480	513	410	563	450

Switch able speed 1500/1800 rpm

The above kW rating are at 0.8 pf

Guaranteed within condition equivalent to those specification in ISO 8528-1, ISO 3046-1 and BS 5514-1.

* Prime power rating of the generating set is where a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hours period.

Nothing that a 10% overload is available for 1 hour in every 12 hours operation

** Standby power rating of the generating set is where a variable load limited to an annual usage up to 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted

Engine Technical Data

Engine Make and Model	Perkins 2506A-E15TAG1/2506A-E15TAG3
Cylinder	6 Vertical In-Line
Aspiration	Turbo Charged, Air to Air Charge Cooled
Combustion System	Direct Injection
Displacement	12.5 Liters
Governor	Electronic
Emissions Regulation	Non-Compliant
Electrical Starting System	24 Volt, Starter Motor and 24V, 45 Amp Alternator with DC Output

Air System

Air Filter Type	Paper Element (Replaceable)		
Combustion Air Flow Cm/min(cfm)	Prime Standby	50 Hz	60 Hz
		24.3 (858.14)	27.4 (967.62)
		26.4 (932.30)	29.0 (1024.12)
Max Air Filter Intake Restriction	6.4 kpa	6.4 kpa	

Fuel System

Fuel Filter Type	Ecoplus (Replaceable)		
Recommended Fuel	Class A2 Diesel		
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	90 (23.8)	87 (23.0)
	Prime Power	81 (21.4)	81 (21.4)
	75% of Prime Power	62 (16.1)	62 (16.4)
	50% of Prime Power	42 (11.1)	43 (11.4)
Fuel Tank: Open / Close	950 L / 950 L		

Lubrication System

Lube Oil	API-CH4 SAE 15W-40 (-10°C to 50°C Ambient Temperature)	
Lube Oil Capacity	40 L	
Oil Pan	38 L	
Oil Filter Type	Full Flow Ecoplus (Replaceable)	
Oil Cooling Method	Water	

Cooling System

Coolant Capacity	51.4 L		
Cooling System	Mounted Radiator, Water Cooled		
Cooling Fan Air Flow m3/min (cfm)	654 (23095.79)	788 (27827.96)	
Heat Radiation to Room	Prime Standby	50 Hz	60 Hz
		34.0 kW	40.3 kW
		39.8 kW	49.6 kW

Exhaust system

Silencer	Grade	Industrial	
	Size	4"	
	QTY	1	
Exhaust gas flow m3/min (cfm)	Prime	64.6 (2281.32)	67.5 (2383.74)
	Standby	72.5 (2560.31)	73.5 (2595.62)
Max Allowable Backpressure	10.0 kpa		10 kpa
Exhaust Gas Max Temperature	Prime Standby	50 Hz	60 Hz
		630°C	660°C
		630°C	660°C

Alternator Technical Data		Standford / or L.S							
Model Number	LSA 47.2S4								
No. of Poles	4								
Number of terminals (leads)	12								
A.V.R & Excitation	AS440								
Regulation	± 1.0%								
Ingress Protection	IP-23								
Insulation Class	H								
TIF	<50								
THD at Full Load %									
THD at No Load %									
Cooling Air flow-@50 Hz m ³ / min (cfm)	54 (1906.99)								
Cooling Air flow-@60 Hz m ³ / min (cfm)	66 (2330.76)								
Output Voltage	50 Hz				60 Hz				
V	380	400	415	-	380	416	440	480	
kVA	-	410	-	-	450	480	500	512	
kW	-	328	-	-	360	384	400	410	

Alternator performance data									
Reactance (f.l.c.l.f)	xd %	-	322	-	-	-	-	-	335
	xd' %	-	17.3	-	-	-	-	-	18
	xd" %	-	12.1	-	-	-	-	-	12.6
Motor starting capacity based on 30% voltage dip and 0.8 pf (kVA)	-	797.7	-	-	-	-	-	-	899.1

Controller features	DSE								
Controller Make and Model	Auto mains failure (AMF) applications including remote communication, user configuration and complete gen-set monitoring and protection. Ready for generators with 3 ph 4 wire / 3ph 3 wire/ Mono ph								
Engine Protection	* Oil Pressure * Coolant Temperature					* Fuel Level (Optional)			
Generator Protection	* Over / Under Voltage * Over / Under Frequency * Phases Frequency					* Over Current * Charging Alternator Fault			
Inputs and Outputs	* 3 No's Configurable Analog Inputs * 4 No's Binary Inputs					* 6 No's Binary Outputs * D+ Pre-Excitation Terminal			
Event and Performance Log	* Gen-set text Alarm Log * For More Features we can use High Controller					* Engine Hours History Log			

Gen-set Enclosure specification (optional)	
Enclosure Type	Acoustic and Weatherproof
Anticorrosive Protection	Polyester Powder Coated Galvanized Sheet
Access Doors	6
Drainage	Fuel and Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Noise Level (@ Free-Field Conditions)	75 dBA @ 7 meter
Water Fill	Radiator Water Filling Provision
Cable Access	Cable Inlet and Outlet Provision
Emergency stop	External Emergency Push Button
Canopy RAL Color	RAL 2000
Chassis RAL Color	RAL 9011

Shipping Data				
Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Open	3515	1250	2204	3097
Enclosed	5012	1670	2447	3890

Notes:

All Generators carry a one year or (1,000) hour's manufacturer's warranty