

Output Power Rating			Prime		Standby ***	
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	500	400	550	440
1800	60 Hz	480	569	455	624	500

Switch able speed 1500/1800 rpm

The above kW rating are at 0.8 pf

Guarantied 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 continous running. Noting that no overload is permitted

Engine Technical Data

Engine Make and Model	Perkins 2506A-E15TAG2/2506A-E15TAG4
Cylinder	6 Vertical In-Line
Aspiration	Turbo Charged, Air to Air Charge Cooled
Combustion System	Direct Injection
Displacement	15.2 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 ³ /min(cfm)	Prime Standby	50 Hz	60 Hz
		25.8 (911.11)	34.3 (1211.29)
		30.5 (1077.09)	38.0 (1341.95)
Max Air Filter Intake Restriction	6.2 kpa		6.2 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	104 (27.5)	116 (30.6)
	Prime Power	95 (25.1)	102 (26.9)
	75% of Prime Power	72 (19.0)	78 (20.6)
	50% of Prime Power	50 (13.2)	52 (13.7)
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	62 L		
Oil Pan	53 L		
Oil Filter Type	Full Flow Ecoplus (Replaceable)		
Oil Cooling Method	Water		

Cooling System

Coolant Capacity	58 L		
Cooling System	Mounted Radiator, Water Cooled		
Cooling Fan Air Flow m ³ /min (cfm)	722 (25497.19)		866 (30582.5)
Heat Radiation to Room	Prime Standby	50 Hz	60 Hz
		27.2 kW	30.5 kW
		31.2 kW	32.5 kW

Exhaust system

Silencer	Grade	Industrial	
	Size	4"	
	QTY	1	
Exhaust gas flow m ³ /min (cfm)	Prime	71.4 (2521.45)	96.0 (3390.20)
	Standby	81.0 (2860.48)	105.3 (371863)
Max Allowable Backpressure	6.8 kpa		10 kpa
Exhaust Gas Max Temperature	Prime Standby	50 Hz	60 Hz
		550°C	550°C

Alternator Technical Data		Standford / or L.S							
Model Number	LSA 47.2M7								
No. of Poles	4								
Number of terminals (leads)	12								
A.V.R & Excitation	R230								
Regulation	± 0.5%								
Ingress Protection	IP-23								
Insulation Class	H								
Total Harmonic TGH/ THC	<2%								
TIF	<50								
THD at No Load %									
Cooling Air flow-@50 Hz m3 / min (cfm)	54 (1906.99)								
Cooling Air flow-@60 Hz m3 / min (cfm)	66 (2330.76)								
Output Voltage	50 Hz				60 Hz				
V	380	400	415	-	380	416	440	480	
kVA	-	500	-	-	562	610	625	625	
kW	-	400	-	-	450	488	500	500	
Alternator performance data									
Reactance (f.l.c.l.f)	xd %	-	307	-	-	-	-	-	319
	xd' %	-	15.9	-	-	-	-	-	16.5
	xd" %	-	11.1	-	-	-	-	-	11.6
Motor starting capacity based on 30% voltage dip and 0.8 pf (kVA)	-	949	-	-	-	-	-	-	1169
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	3800	1200	1800	3760					
Enclosed	4920	1600	2210	5160					

Notes:

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