

Output Power Rating		Prime		Standby ***		
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	400	320	450	360
1800	60 Hz	480	400	320	438	350

### 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 2206A-E13TAG3
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 <sup>3</sup> /min(cfm)	Prime	50 Hz 24.3 (858.14)	60 Hz 27.4 (967.62)
	Standby	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 m <sup>3</sup> /min (cfm)	654 (23095.79)	788 (27827.96)	
Heat Radiation to Room	Prime	50 Hz 34.0 kW	60 Hz 40.3 kW
	Standby	39.8 kW	49.6 kW

### Exhaust system

Silencer	Grade	Industrial	
	Size	4"	
	QTY	1	
Exhaust gas flow m <sup>3</sup> /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	50 Hz 630°C	60 Hz 660°C
	Standby	630°C	660°C

Alternator Technical Data			Stamford / or L.S								
Model Number			LSA 47.2S4								
No. of Poles			4								
Number of terminals (leads)			12								
A.V.R & Excitation			R230								
Regulation			± 0.5%								
Ingress Protection			IP-23								
Insulation Class			H								
TIF			<50								
THD at Full Load %											
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			-	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			3400	1200	1700	3180					
Enclosed			4420	1600	2260	4480					

**Notes:**

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