

Output Power Rating			Prime		Standby	
rpm	Frequency	Voltage	Kva	Kw	Kva	Kw
1500	50 Hz	400	650	520	681	545
1800	60 Hz	480	700	560	750	600

## 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 2806A-E18TAG2/2806A-E18TAG3
Cylinder	6 vertical in line
Aspiration	turbocharged and air to air charge cooled
Combustion System	Direct injection
Displacement	18.1 litters
Governor	electronic
Emissions Regulation	non-compliant
Electrical starting system	24 volt starter motor and 24 volt 70 amp alternator with DC output

## Air System

Air Filter Type	Paper Element (Replaceable)	
Combustion Air flow Cm/min(cfm)	50 Hz	60 Hz
	prime 34 (1200.69)	43 (1518.53)
	standby 36 (1271.32)	45 (1589.16)

## Fuel System

Fuel filter type	Class A2 Diesel		
Fuel Consumption l/hr(US gal/hr)	Engine speed	1500	1800
	standby	134(35.4)	141 (37.2)
	prime power	123 (32.5)	127 (33.5)
	75% of prime power	90 (23.8)	95 (25.1)
	50% of prime power	61 (16.1)	66 (17.4)
Fuel tank capacity: open/close	1250 L/1150 L		

## Lubrication System

Lube oil	API-CG4 or APEA ES , SAE 15 w-40(10 `c to 50 `c ambient temperature	
Lube oil capacity	62 L	
Oil pan	53 L	
Oil filter type	full -flow Eco plus (replaceable)	
Oil cooling method	water	

## Cooling System

Coolant capacity	61 L	
Cooling system	Mounted radiator, water cooled	
Cooling fan air flow m3/min (cfm)	702	852
Heat radiation to room	50 Hz	60 Hz
	Prime 38 kw	40 kw
	standby 42 kw	44 kw

## Exhaust system

Silencer	Girade	Industrial	
	Size	8"	
	QTY	1	
Exhaust gas flow m3/min (cfm)	Prime	96 (3390.20)	109 (3849.29)
	standby	104 (3672.72)	118 (4167.13)
Max allowable backpressure	6.9 kpa		6.9 kpa
Exhaust gas max Temp	50 Hz	60 Hz	
	prime, standby	568 `c	481 `c
		571 `c	489 `c

## Alternator Technical Data

## Stamford / or L.S

Model Number	LSA 47.2 L9							
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							
Cooling Air flow-@50 Hzm3/min (fcm)	54 (1906.99)							
Cooling Air flow-@60 Hzm3/min (fcm)	66 (2330.76)							
Output Voltage	50 Hz				60 Hz			
V	380	400	415		380	416	440	480
KVA		600			602	661	685	750
KW		480			482	529	548	600

## Alternator performance data

Reactance (f.l.c.l.f)	xd %	330						344
	xd' %	16.5						17.2
	xd'' %	11.4						11.8
Motor starting capacity based on 30% voltage dip and 0.8 pf (KVA)		1198.8						1398.6

## 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/3 ph 3 wire/ mono ph							
Engine Protection	oil pressure				fuel level optional			
	coolant temperature				coolant level optional			
Generator Protection	over/under voltage	over under frequency			over current			
	over/under frequency					phases sequence		
Inputs and outputs	3 No`s configuration analog inputs					6 No`s binary outputs		
	4 No`s binary inputs					charging alternator fault		
Event and performance log	Gen-set text alarm log					Engine hours history log		
	for more features we can use higher controller							

## Gen-set Enclosure specification (optional)

Enclosure type	Acoustic and Weather proof							
Anticorrosive protection	polyester powered coated galvanized sheet							
Access Doors	6							
Drainage	fuel and water drainage provision							
Transportation	tested double point lifting facility and forklift pokets							
Noise Level @ free field condition	77 dBA @ 7 meter							
water fill	radiator water filing 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 (mm)
Open	3800	1600	2300	4840
Enclosed	5700	1900	2360	6340