

Output Power Rating		Prime		Standby		
rpm	Frequency	Voltage	kVa	Kw	Kva	Kw
1500	50Hz	400	1022	818	1125	900
1800	60Hz	480	995	796	1097	878

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. Note:

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. Note that no overload is permitted.

Engine Technical Data

Engine Make And Model	PERKINS 4008TAG2A / 4008TAG2
Cylinders	8 vertical in-line
Aspiration	Turbocharged and air-to-air charge cooled
Combustion System	Direct injection
Displacement	30,561 liters
Governor	Electronic - Digital
Emissions Regulations	TA Luft (1986)
Electrical Starting System	24 volt starter motor and 24 volt/40 amp alternator with integral regulator and DC output

Air System

Air Filter Type	Paper Element (Replaceable)	
Combustion Air Flow m ³ /min(cfm)	50 Hz	60 Hz
	75.0 (2648.6)	72 (2542.6)
	80.5 (2842.8)	75 (2648.6)
Max air filter intake restriction	3.7 kpa	3.7 kpa

Fuel System

Fuel Filter Type	Class A2 Diesel		
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	240	249 (65.7)
	Prime Power	215	224 (59.1)
	75% of Prime Power	162	162 (42.8)
	50% of Prime Power	111	108 (28.5)
Fuel Tank Capacity: Open / Close	Nil/Nil		

Lubrication System

Lube Oil	API-CG4, SAE 15W-40 (10 °c to 50 °c Ambient Temperature)
Lube Oil Capacity	153 L
Oil Pan	127 L
Oil Filter type	Full-flow spin-on oil filter
Oil Cooling Method	Water

Cooling System

Coolant Capacity	149 L	
Cooling System	Water Cooled	
Cooling Fan Air Flow m ³ /min (cfm)	1350 (47674.8)	1290 (45555.9)
Heat Radiation to Room	50 Hz	60 Hz
	Prime 80 kw	85 kw
	Standby 100 kw	100 kw

Exhaust System

Silencer	Grade	Industrial	
	Size	6"	
	Qty	2	
Exhaust Gas Flow m ³ /min (cfm)	Prime	200 (7062.9)	202 (7133.5)
	Standby	200 (7062.9)	202 (7133.5)
Max Allowable Backpressure	8 kpa	6.69 kpa	
Exhaust Gas Max Temp	50 Hz	60 Hz	
	Prime 438 °c	505 °c	
	Standby 465 °c	505 °c	

Alternator Technical Data **Stamford / or LS**

Model Number	Leroy Somer LSA 49.1 L11
No. of Poles	4 Poles
Number of Terminals (leads)	6
A.V.R & Excitation	R220
Regulation	±0.5%
Ingress Protection	IP23
Insulation Class	H
Total harmonic TGH/THC	<3.5%
TIF	108 (3813.98)
THD at No Load %	132 (4661.53)
Cooling Air Flow-@50 Hzm ³ /min (fcm)	1.2 m ³ /s
Cooling Air Flow-@60 Hzm ³ /min (fcm)	1.4 m ³ /s

Output Voltage

V	380	400	415	440	380	416	440	480
KVA	1040	1040	1040	1040	1085	1185	1235	1300
KW	832	832	832	832	868	948	988	1040

Alternator Performance Data

Reactance (f.l.cl.F)	Xd %	—	394	—	—	—	—	—	410
	Xd %	—	108	—	—	—	—	—	21.5
	Xd %	—	17.6	—	—	—	—	—	18.4
Motor Starting Capability Based on 30% voltage dip and 0.8 PF (KVA)		—	2100	—	—	—	—	—	2550

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 Protections	oil pressure				fuel level optional			
Generator Protections	coolant temperature				coolant level optional			
	over/under voltage		over under frequency		over current			
Inputs and Outputs	over/under frequency				phases sequence			
	3 No`s configuration analog inputs				6 No`s binary outputs			
Event and Performance Log	4 No`s binary inputs				charging alternator fault			
	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 Powder Coated Galvanized Sheet
Access Doors	4
Drainage	Fuel & Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Noise Level (@ Free Field Conditions)	78 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	4900	1870	2200	7550
Enclosed	6000	2440	2790	10550