

Output Power Rating**Prime****Standby**

rpm	Frequency	Voltage	kVa	Kw	Kva	Kw
1500	50Hz	400	750	600	825	660
1800	60Hz	480	750	600	825	660

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

Engine Technical Data

Engine Make And Model	PERKINS 4006-23TAG2A
Cylinders	6 Vertical in-line
Aspiration	Turbocharged and Air-to-Air charge cooled
Combustion System	Direct injection
Displacement	22.921 liters
Governor	Heinzmann Digital Governor
Emissions Regulations	1/2 TA - Luft
Electrical Starting System	24 volt starter motor, 24 volt 70 amp battery charging alternator with integral voltage regulator and activating

Air System

Air Filter Type	Paper Element (Replaceable)
Combustion Air Flow Cm/min(cfm)	64 M3/min

Fuel System

Fuel Filter Type	Class A2 Diesel		
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	210 (173)	226 (199)
	Prime Power	209 (157)	222 (177)
	75% of Prime Power	211 (121)	212 (129)
	50% of Prime Power	213 (83)	212 (90)
Fuel Tank Capacity: Open / Close	203 (in full load)		

Lubrication System

Lube Oil	15W40 to API CG4
Lube Oil Capacity	113.4 liters
Oil Pan	113.4 liters
Oil FilterType	Oil cooler with separate filter header
Oil Cooling Method	Wet sump with filler and dipstick

Cooling System

Coolant Capacity	105 liters
Cooling System	Twin thermostats, water pump / water cooled
Cooling Fan Air Flow m3/min (cfm)	System designed for ambient up to 35°C or 50°C
Heat Radiation to Room	231 Kw

Exhaust System

Silencer	Grade	Industrial
	Size	8"
	Qty	1
Exhaust Gas Flow m³/min (cfm)	180 M3/min	
Max Allowable Backpressure	6.9 kpa	6.9 kpa
Exhaust Gas Max Temp	50 Hz	60 Hz
	Prime 555 °c	481 °c
	Standby 553 °c	489 °c

Alternator Technical Data		Stamford / or LS						
Model Number	Leroy Somer LSA 49.1 M75							
No. of Poles	4							
Number of Terminals (leads)	6							
A.V.R & Excitation	R448							
Regulation	±0.5%							
Ingress Protection	IP-23							
Insulation Class	H							
Total harmonic TGH/THC	at no load <4%, on load <4%							
TIF	<50							
Cooling Air Flow-@50 Hzm ³ /min (fcm)	60 (2118.88)							
Cooling Air Flow-@60 Hzm ³ /min (fcm)	72 (2542.65)							

Output Voltage	50 Hz				60 Hz			
	V	380	400	415	380	416	440	480
KVA	660	660	660	710	710	725	792	
KW	528	528	582	568	568	580	634	

Alternator Performance Data							
Reactance (f.l.c.l.F)	Xd %	343					343
	Xd %	17.5					17.5
	Xd %	14					14
Motor Starting Capability Based on 30% voltage dip and 0.8 PF (KVA)		1498.3					1748.5

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
Drainage	Fuel & Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
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	4300	1750	2200	6100
Enclosed	6000	2440	2590	9100