

Output Power Rating		Prime			Standby	
rpm	Frequency	Voltage	kVa	Kw	Kva	Kw
1500	50Hz	400	2058	1646	2263	1811
1800	60Hz	480	N/A	-	N/A	-

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 4016TAG2A
Cylinders	16,60° Vee From
Aspiration	Turbocharged and air-to-air charge cooled
Combustion System	Direct injection
Displacement	61.123 liters
Governor	Electronic
Emissions Reenulations	TA Luft
Electrical Starting System	24 volt starter motor and 24 volt alternator with integral regulator and DC output

Air System

Air Filter Type	MF&T 5000-00-00	
Combustion Air Flow m ³ /min(cfm)	50 Hz	60 Hz
	137 (4838.10)	-
	145 (5120.62)	-
Max Air Filter Intake Restriction	3.7 kPa	-

Fuel System

Fuel Filter Type	Full-Flow Spin-On (Replaceable)		
Recommended Fuel	Class A2 Diesel		
Fuel Consumption l/hr(US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	483 (127.5)	-
	Prime Power	434 (114.6)	-
	75% of Prime Power	316 (83.4)	-
	50% of Prime Power	210 (55.5)	-
Fuel Tank Capacity: Open / Close	Nil / Nil		

Lubrication System

Lube Oil	APICD or CCMCD4,SAE 15W-40 (-10° C to 50° C Ambient Temperature)
Lube Oil Capacity	237.2 L
Oil Pan	213 L
Oil Filter type	Full-Flow Spin-On (Replaceable)
Oil Cooling Method	Water

Cooling System

Coolant Capacity	270 L		
Cooling System	Water Cooled		
Cooling Fan Air Flow m ³ /min (cfm)	2430 (85814.6)		
Heat Radiation to Room	50 Hz	60 Hz	
	Prime	130 kW	-
	Standby	150 kW	-

Exhaust System

Silencer	Grade	Industrial	
	Size	10"	
	Qty	2	
Exhaust Gas Flow m ³ /min (cfm)	Prime	387 (13666)	
	Standby	387 (13666)	
Max Allowable Backpressure	6.6 kPa		
Exhaust Gas Max Temp	50 Hz	60 Hz	
	Prime	493°C	-
	Standby	493°C	-

Model Number	LSA 51.2 M60
No. of Poles	4
Number of Terminals (leads)	6
A.V.R & Excitation	R 449
Regulation	±0.5%
Ingress Protection	IP-23
Insulation Class	H
Total harmonic TGH/THC	< 3.5%
TIF	< 50
Cooling Air Flow-@50 Hzm ³ /min (fcm)	108 (3813.98)
Cooling Air Flow-@60 Hzm ³ /min (fcm)	132 (4661.53)

Output Voltage		50Hz				60Hz			
V		380	400	415	440	380	416	440	480
KVA		-	2050	-	-				
KW		-	1640	-	-				

Alternator Performance Data

Reactance (f.l.c.l.F)	Xd %		350						
	Xd' %		26.9						
	Xd'' %		13.9						
Motor Starting Capability Based on 30% voltage dip and 0.8 PF (KVA)			4495.5						

Controller features **Comp- AMF9 / DSE (Optinal)**

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 wires / Mono ph
Engine Protections	<ul style="list-style-type: none"> •Oil pressure •Coolant temperature •Fuel Level (Optional) •Coolant Level (Optional)
Generator Protections	<ul style="list-style-type: none"> •Over /Under voltage •Over /Under Frequency •Phases Sequence •Overcurrent •Changing Alternator Fault
Inputs and Outputs	<ul style="list-style-type: none"> •3 No's Configurable analog inputs •4 No's binary inputs •6 No's binary outputs •D+ Pre-Excitation Terminal
Event and Performance Log	<ul style="list-style-type: none"> •Gen-set text alarm log •For more features we can use •Engine hours history log •Higher Controller

Gen-set Enclosure Specification (Optional)

Enclosure Type	Acoustic and Weather Proof
Anticorrosive Protection	High Quality Spray Painted
Access Doors	6
Drainage	Fuel & Water Drainage Provision
Transportation	ISO Standard Lifting Facility & Forklift Pockets
Noise Level (@ Free Field Conditions)	80 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	As per Customer Requirement
Chassis RAL Color	As per Customer Requirement

Shipping Data

Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Open	6500	2300	3300	15150
Enclosed	12000	2440	4000	20400