



KIRLOSKAR DIESEL GENERATING SETS

KG17A / KG17AS

Diesel Generating Set Output Ratings					
Model	Prime Rating (PRP) at 0.8 pf (lag)	Standby Rating (ESP) at 0.8 pf (lag)	Phase / Hz	Standard Voltage (L-L)	Optional Voltage (L-L)
KG17A(OPEN)	17 kVA	18.7 kVA	3 Phase / 60Hz	220V	380V to 480V*
KG17AS (SAE)	13.6 kW	14.96 kW			

- SSAFE – Sound Attenuated Enclosure * kVA rating may change please consult KOEL
- Ratings are according to ISO 8528; refer to ratings definition on page 2.



Note: Above picture shown for illustration purpose only, actual product may be different.

Features

- Extremely reliable.
- Lower operating cost.
- Easy maintenance – higher uptime.
- Sound attenuated enclosure (canopy) is fully integrated and designed for all weather conditions (weather proof).
- Best in class Sound attenuation – 70 dB(A) at 7 meters as per ISO 8528
- State of the art generating set control system with high degree of accuracy and reliability.
- Superior design standards that minimize power deration even at high ambient temperatures.
- Ideally suitable for Telecom, Services, Residential application etc
- Efficient and prompt after sales service available

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Ratings Definition:

Standby Ratings:

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3)


Prime Rating:

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercial purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Continuous Rating:

These ratings are applicable for supplying power continuously to a constant load upto the full output rating for unlimited hours. No sustained overload capability is available for this rating.

GENERATING SET SPECIFICATIONS	
Model - Open Type	KG17A
Model - SAE Type	KG17AS
Frequency (Hz)	60
Power Factor	0.8
Phase	Three phase
Line Voltage (Volts)	220V 380V
Phase Voltage (Volts)	127V 220V
Fuel Tank Capacity (L) standard	Open – 63 SAE – 63
Fuel consumption at 100% load (lit/hr) +5% tolerance	4.6
Fuel consumption at 75% load (lit/hr) +5% tolerance	3.45
Sound level at 7 m for Silent Generating set dB(A)	70
Overall dimensions (LxWxH cms) standard	Open – 130x92x130 SAE – 172x105x143
Weight (kgs) standard	Open Type – 650 SAE Type – 820

CONTROL SYSTEM	
	
Controller Make	Deepsea
Controller Model	DSE 6120 MKII
Digital display instrumentation	Generator Voltage Generator Amps Generator Frequency Mains Voltage Battery Voltage Engine hours Run, Engine speed Oil Pressure Engine Temperature Fuel Level
Shutdowns/Safeties	Fail to Stop Low Oil pressure High Engine Temperature Under/Over-speed Under/Over voltage Emergency Stop Failed to reach loading voltage Failed to reach loading frequency Charge Fail Over Current Low DC Voltage
Automatic Starting & AMF facility	Available



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Engine Technical Data

Physical Data	
Engine Make	Kirloskar
Engine Model	HA294
Cylinders / Configuration	2 / Inline
Type	Four stroke
Bore x Stroke (mm)	100 x 120
Displacement (L)	1.88
Cooling	Air cooled
Aspiration	Naturally Aspirated
Compression Ratio	18 : 1
hp Prime @ 1800rpm	23
hp Standby @ 1800rpm	25.3

Fuel System	
Type of fuel filter	Two stage spin on type
Governor Type	Mechanical
Class of Governing	ISO 8528-5, Class G2
Fuel pump type	Inline
Fuel System	Direct injection
Recommended Fuel	Class A2, High speed diesel
Fuel consumption at 100% load (lit/hr) +5% tolerance	4.6
Fuel consumption at 75% load (lit/hr) +5% tolerance	3.45
Fuel consumption readings are based on diesel fuel with a specific gravity of 0.85 and confirming to BS 2869, Class A2)	

Lubrication System	
Type of lube oil filter	Full flow spin on type
Oil to be used	SAE 15W40 API : CI4
Oil pump type	Through G-rotor gear pump
Lub oil sump capacity (lit)	5.5
Lube oil consumption	Less then 0.7% of fuel consumption

Electrical System	
Starting Arrangement	12V Electric
Starter	12V Electric
Starter Battery Rating	75Ah
Battery charging alternator	Engine mounted 12V battery charger
Battery charger amps	35

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Alternator Technical Data

Physical Data		
Line Voltage (Volts)	220V	380V
Manufacturer	Stamford	
Model	PI 044 G1	PI 044 G1
Number of bearings	1	
Insulation class	H	
Winding pitch	2/3	
Wires	12	
Ingress Protection Rating	IP 23	
AVR Model	AS 480	

Operating Data		
Line Voltage (Volts)	220V	380V
Over speed (RPM)	2250	
Excitation	Self excited	
Efficiency (%)	82.3	82.4
THD at full linear balanced load AC waveform	≤ 5%	
Voltage Regulation (%)	± 1.0	
Reactance per unit (Xd)	2.05	2.15
Reactance per unit (X'd)	0.21	0.22
Reactance per unit (X''d)	0.14	0.15

Sound Attenuating Enclosure (Canopy)

Sound Level	70 dB at 7 meter as per ISO 8528
Construction	<ul style="list-style-type: none"> Fully Integrated, metal construction for ALL WEATHER USE (weather proof). Black zinc die cast, Aluminium hinges or Stainless steel hinges tested to withstand corrosive environment conditions. Fuel filling spout with lock. Emergency stop button on canopy exterior. Provision of glass window for viewing control panel Provision for lifting canopy
Maintenance	Easy access through lockable doors for operation/maintenance and repair works (including access for radiator service)
Protection Standard	IP 23

General Data

Documents	<ul style="list-style-type: none"> A full set of Illustrated spare parts catalogue Operation & Maintenance manual Circuit Diagrams
Quality Standards	ISO 8528, ISO 3046, IS 100002, BS5514, DIN 6271, ISO 9001, ISO 14001



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