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KIRLOSKAR DIESEL GENERATING SETS

KG625W / KG625WS

Diesel Generating Set Output Ratings					
Model	Prime Rating at 0.8 pf (lag)	Standby Rating at 0.8 pf (lag)	Phase / Hz	Standard Voltage (L-L)	Optional Voltage (L-L)
KG625W (OPEN)	625 kVA 500 kW	655 kVA 524 kW	3 Phase / 60 Hz	380V	220V
KG625WS (SAE)					

- S
AE – Sound Attenuated Enclosure
- 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 attenuating enclosure (canopy) is fully integrated and designed for all weather conditions (weather proof).
- State of the art generating set control system with high degree of accuracy and reliability.
- V type engine design for lower footprint.
- Extended service interval to 500hrs
- Superior design standards that minimize power deration even at high ambient temperatures.
- 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	KG625W
Model - SAE Type	KG625WS
Line Voltage (Volts)	220V 380V
Phase Voltage (Volts)	127V 220V
Frequency (Hz)	60
Power Factor	0.8
Phase	Three phase
Fuel Tank Capacity (Liters)	Open – 930
	SAE – 930
Fuel consumption at 100% load (lit/hr) +5% tolerance	127.2
Fuel consumption at 75% load (lit/hr) +5% tolerance	97.7
Sound level at 7 m for Silent Generating set dB(A)	78
Overall dimensions (cms)	Open -380x200x236
	SAE – 567x211x284
Weight (kgs)	Open Type – 5300
	SAE Type – 7250

CONTROL SYSTEM	
Controller Make	Deepsea
Controller Model	DSE 7320 MKII
Digital display instrumentation	Generator Voltage Generator Amps Generator Frequency Generator kWh Power factor Mains Voltage Battery Voltage Engine hours Run Oil Pressure Gauge Engine Temperature Gauge 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 & over kW Low DC Voltage Low coolant level
Automatic Starting & AMF facility	Available



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Engine Technical Data

Physical Data	
Engine Make	Kirloskar
Engine Model	DV12 SR1
Cylinders / Configuration	12 / V type
Type	Four stroke
Bore x Stroke (mm)	130 x 150
Displacement (Ltr)	23.88
Cooling	Water cooled
Aspiration	Turbocharged Aftercooled
Compression Ratio	16.5 : 1
hp Prime @ 1800rpm	750
hp Standby @ 1800rpm	788

Fuel System	
Type of fuel filter	Spin on type
Governor Type	Electronic
Class of Governing	ISO 8528-5, Class G2
Fuel pump type	Inline
Fuel pump make	Kirloskar
Recommended Fuel	Class A2, High speed diesel
Fuel consumption at 100% load (lit/hr) +5% tolerance	127.2
Fuel consumption at 75% load (lit/hr) +5% tolerance	97.7
Fuel consumption readings are based on diesel fuel with a specific gravity of 0.85 and confirming to BS 2869, Class A2)	

Air System	
Air Filter Type	Dry type replaceable element
Air Volume required for Ventilation (m ³ /hr)	TBA
Combustion air flow (m ³ /hr)	TBA
Total Air Flow required for ventilation (m ³ /hr)	TBA
Total Fresh air required (m ³ /hr)	TBA

Lubrication System	
Type of lube oil filter	Full flow spin on type
Oil to be used	SAE 15W-40 API : CI4
Oil pump type	Through G-rotor gear pump
Lub oil sump capacity (lit)	45
Lube oil consumption	0.12% of fuel consumption

Cooling System	
Cooling system capacity (lit)	144
Water pump type	Centrifugal
Radiator fan load (hp)	24

Electrical System	
Starting Arrangement	24V Electric
Starter	24V Electric
Starter Battery Rating	2 x 180Ah
Battery charging alternator	Engine mounted 24V battery charger
Battery charger amps	45



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Alternator Technical Data

Physical Data		
Line Voltage (Volts)	220V	380V
Manufacturer	Stamford	
Model	HCI544E1	HCI544E1
Number of bearings	1	
Insulation class	H	
Winding pitch & Wires	2/3 & 12	
Winding connections	Series Delta	Series Star
Ingress Protection Rating	IP 23	
AVR Model	AS440	

Operating Data		
Line Voltage (Volts)	220V	380V
Over speed (RPM)	2250	
Excitation	Self excited	
Efficiency (%)	94.8	94.8
THD at full linear balanced load AC waveform	≤ 5%	
Voltage Regulation (%)	± 1.0	
Reactance per unit (Xd)	3.53	3.53
Reactance per unit (X'd)	0.17	0.17
Reactance per unit (X''d)	0.12	0.12

Sound Attenuating Enclosure (Canopy)

Sound Level	78 dB(A) 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 in (soft copies)	<ul style="list-style-type: none"> Generator user manual A full set of Illustrated spare parts catalogue Operation & Maintenance manual Circuit Diagrams pasted inside control panel
Quality Standards	ISO 8528, ISO 3046, IS 100002, BS5514, DIN 6271, ISO 9001, ISO 14001



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