

DIESEL GENERATOR SET - MAKAWA POWER



WATER-COOLED



ONE PHASE



50HZ



DIESEL FUEL



STANDARD SPECIFICATIONS

1. ENGINE
FOUR STROKE HEAVY DUTY HIGH PERFORMANCE INDUSTRIAL DIESEL ENGINE.

2. ENGINE FILTRATION SYSTEM

- AIR FILTER
- FUEL FILTER
- FULL FLOW LUBO OIL FILTER

ALL FILTERS HAS REPLACEABLE ELEMENTS

3. COOLING SYSTEM

EFFICIENT WATER-COOLED SYSTEM WITH COMPLETE SAFETY GUARDS, DESIGNED TO COOL THE ENGINE AT HIGH AMBIENT TEMPERATURES (CONSULT US FOR DE-RATION FACTORS)

4. EXHAUST SYSTEM

HEAVY DUTY INDUSTRIAL EXHAUST SILENCER

5. CIRCUIT BREAKER TYPE

DELIXI MCCB 3POLE

GENERATING SET MODEL		MKW8YD		ALTERNATOR DATA	
OUTPUT RATING	PRIME	STANDBY	BRAND	YIHUA	
220V, 1PH, 50HZ, 1500RPM	8KVA	8.8KVA	MODEL	YG8.8	
	8KW	8.8KW	NO.OF BEARINGS	1	
			INSULATION CLASS	H	
ENGINE TECHNICAL DATA			WIRES	12	
ENGINE MAKE	YANGDONG		INGRESS PROTECTION	IP23	
ENGINE MODEL	YD385D		EXCITATION SYSTEM	SHUNT	
GOVERNING TYPE	MECHANICAL		VOLTAGE	±1%	
NUMBER OF CYLINDERS	3		CANOPY BRAND: MAKAWA		
CYLINDER ARRANGEMENT	IN-LINE		LENGTH mm	1500	
BORE AND STROKE (mm)	85 X 90		WIDTH mm	740	
DISPLACEMENT	1.532	L	HEIGHT mm	930	
ASPIRATION	NATURAL-ASPIRATED		WEIGHT*kg	487	
CYCLE	4 STROKE		FUEL TANK CAPACITY	52L	
COMPRESSION RATIO	18:1				

COOLING SYSTEM	WATER-COOLING		Sound level @7m	69dB
FREQUENCY & ENGINE SPEED	50HZ & 1500RPM		CONTROL PANEL	
	PRIME	STANDBY	MAKE	DATAKOM OR DEEPSEA
GROSS ENGINE POWER kW	11kW	-	MODEL	D300 OR DSE6020
FUEL CONSUMPTION @ 100% L/hr	3	-	PLEASE REFER TO D300 OR DSE6020 BROCHURE FOR MORE DETAILS	
FUEL CONSUMPTION @ 50% L/hr	-	-	AN INSPIRED DESIGN TO MEET YOUR NEEDS	

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RATINGS DEFINITION

PRIME POWER

THESE RATING ARE APPLICABLE FOR SUPPLYING CONTINUOUS ELECTRICAL POWER (AT VARIABLE LOAD) IN LIEU OF COMMERCIALY PURCHASED POWER. 10% OVERLOAD POWER IS AVAILABLE FOR 1HOUR IN 12HOURS CONTINUOUS OPERATION.

STANDBY POWER

THESE RATING ARE APPLICABLE FOR SUPPLYING CONTINUOUS ELECTRICAL POWER (AT VARIABLE LOAD) IN THE EVENT OF A UTILITY POWER FAILURE. NO OVERLOAD IS PERMITTED.

STANDARD REFERENCE CONDITIONS

OUTPUT RATING ARE PRESENTED AT 27°C AIR INLET TEMPERATURE, BAROMETRIC PRESSURE 100kPa, RELATIVE HUMIDITY 30%. THIS GENERATING SET IS DESIGNED TO OPERATE AT HIGH AMBIENT TEMPERATURE (UP TO 52°C), HUMIDITY (UP TO 90%) AND HIGH ALTITUDES. DE-RATION MAY APPLY, PLEASE CONSULT US FOR SPECIFIC SITE RATINGS.

AVAILABLE OPTIONS & ACCESSORIES

WE OFFER A RANGE OF OPTIONAL FEATURES AND ACCESSORIES TO TAILOR OUR GENERATING SETS TO MEET YOUR POWER NEEDS.

OPTIONS

- A VARIETY OF GENERATING SET CONTROL AND SYNCHRONIZING PANELS
- ADDITIONAL PROTECTION ALARMS AND SHUTDOWNS
- WATER - FUEL SEPERATOR
- WATERJACKET HEATER
- BATTERY CHARGER

ACCESSORIES

STANDARD SPECIFICATIONS

8.2 ANTI-VIBERATION MOUNTING DUMPER

DUMPER ARE AFFIXED BETWEEN THE ENGINE & ALTERNATOR FEET AND THE CHASSIS, THUS ENSURING COMPLETE VIBRATION ISOLATION OF ROTATING ASSEMBLY.

8.3 COUPLING

THE ENGINE AND ALTERNATOR ARE DIRECTLY COUPLED BY MEANS OF AN SAE FLANGE. THE ENGINE FLYWHEEL IS FLEXIBLY COUPLED TO THE ALTERNATOR ROTOR.

8.4 SAFETY GUARDS

THE FAN & FAN DRIVE ALONG WITH THE BATTERY CHARGING ALTERNATOR ARE SAFETY GUARD PROTECTED FOR PERSONAL PROTECTION.

9. TESTS

- THE GENERATING SET IS LOAD TEST BEFORE DISPATCH.
- ALL PROTECTIVE DEVICES CONTROL FUNCTIONS AND SITE LOAD CONDITIONS ARE SIMULATED. THE GENERATOR AND IT'S SYSTEMS ARE CHECKED BEFORE DISPATCH.

10. EQUIPMENT FINISHING

ALL MILD STEEL COMPONENTS ARE FULLY DEGREASED AND PAINTED WITH POWDER COATED PAINT TO ENSURE MAXIMUM SCUFF RESISTANCE AND DURABILITY.

11. EQUIPMENT FINISHING

OPERATION & MAINTENANCE MANUAL, CIRCUIT WIRING DIAGRAMS.

12. QUALITY STANDARDS

6. FUEL SYSTEM

ON GENERATING SETS UP TO 750KVA, THE CHASSIS DESIGN IS INCORPORATED WITH INTEGRAL FUEL TANK WITH A CAPACITY OF APPROX 12HOURS TO 13HOURS RUNNING AT FULL LOAD. THE TANK IS SUPPLIED COMPLETE WITH FILL CAP, BREATHER, FUEL FEED AND RETURN LINES TO THE ENGINE AND DRAIN PLUG.

7. ALTERNATOR

7.1 INSULATION SYSTEM

- THE INSULATION SYSTEM IS CLASS H
- ALL WINDINGS ARE IMPREGNATED IN EITHER A TRIPLE DIP THERMOSETTING LIQUID, OIL AND ACID RESISTING POLYESTER VARNISH OR VACUUM PRESSURE IMPREGNATED WITH A SPECIAL POLYESTER RESIN.

- HEAVY COAT OF ANTITRACKING VARNISH ADDITIONAL PROTECTION AGAINST MOISTURE OR CONDENSATION

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

- THE FULLY SEALED AUTOMATIC VOLTAGE REGULATOR MAINTAINS THE VOLTAGE REGULATION AT ±1%.

7.3 MOTOR STARING (OPTIONAL)

- AN OVERLOAD CAPACITY EQUIVALENT TO 300% OF THE FULL LOAD IMPEDANCE AT ZERO POWER FACTOR CAN BE SUSTAINED FOR 10 SECONDS, WHEN AREP (AUXILIARY WINDING) OPTION IS FITTED.

- GENUINE SPARE PARTS
- AUXILIARY FUEL TANKS
- MANUAL & AUTOMATIC TRANSFER SWITCHES
- Ground connection: YES

EMISSION STANDARDS

Meet the national technical regulations on industrial emissions for dust and inorganic substances (QCVN19:2009/BTNMT).

+ The exhaust system is designed to ensure ventilation for the surrounding environment.

COOLING SYSTEM

Cooling method (compliance with TCVN 6627-6:2011)

WATER-COOLING

ABILITY START Able to boot from 0% load to 100% load within 30s

OVERLOAD CAPACITY: Capable of 1 hour operation at 110% overload for any 12 hour operating period

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THE EQUIPMENT MEETS THE FOLLOWING STANDARDS: BS4999, BS5000, BS5514, IEC60034, VDE0530 AND ISO8528

13. WARRANTY

ALL OF THE GENERATING SETS ARE COVERED UNDER A WARRANTY POLICY FOR A PERIOD OF 12 MONTHS OR 1 YEAR (WHICHEVER COMES EARLIER) OF THE EQUIPMENT IS IN LINE WITH MANUFACTURERS WARRANTY TERMS AND CONDITIONS.

8. MOUNTING ARRANGMENT

8.1 CHASSIS

THE COMPLETE GENERATING SET IS MOUNTED AS A WHOLE ON A HEAVY DUTY FABRICATED STEEL CHASSIS.

IN LINE WITH CONTINUOUS PRODUCT DEVELOPMENT, WE RESERVE THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.