

## DIESEL GENERATOR SET - MAKAWA POWER



WATER-COOLED



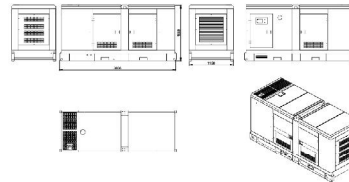
ONE PHASE



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	MAKE	MAKAWA	
220V, 1PH, 50HZ, 1500RPM	8KVA	8.8KVA	MODEL	MKW8.8	
	8KW	8.8KW	NO.OF BEARINGS	1	
			INSULATION CLASS	H	
			WIRES	12	
			INGRESS PROTECTION	IP23	
			EXCITATION SYSTEM	SHUNT	
			VOLTAGE	±1%	
			CANOPY BRAND: MAKAWA		
			LENGTH mm	1500	
			WIDTH mm	740	
			HEIGHT mm	930	
			WEIGHT*kg	487	
			FUEL TANK CAPACITY	50L	
			Sound level @7m	74dB	
			CONTROL PANEL		
ENGINE TECHNICAL DATA					
ENGINE MAKE	MAKAWA				
ENGINE MODEL	MKWYD385D				
GOVERNING TYPE	MECHANICAL				
NUMBER OF CYLINDERS	3				
CYLINDER ARRANGEMENT	IN-LINE				
BORE AND STROKE (mm)	85 X 90				
DISPLACEMENT	1.532	L			
ASPIRATION	NATURAL-ASPIRATED				
CYCLE	4 STROKE				
COMPRESSION RATIO	18:1				
COOLING SYSTEM	WATER-COOLING				
FREQUENCY & ENGINE SPEED	50HZ & 1500RPM				

	PRIME	STANDBY	MAKE	DATAKOM OR DEESEA
GROSS ENGINE POWER kW	11kW	-	MODEL	D300 OR DSE6020
FUEL CONSUMPTION @ 100% L/hr	3.5	-		PLEASE REFER TO D300 OR DSE6020 BROCHURE FOR MORE DETAILS
FUEL CONSUMPTION @ 50% L/hr	-	-		<b>AN INSPIRED DESIGN TO MEET YOUR NEEDS</b>

## DIESEL GENERATOR SET - MAKAWA POWER

### 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

- GENUINE SPARE PARTS
  - AUXILIARY FUEL TANKS
  - MANUAL & AUTOMATIC TRANSFER SWITCHS
  - Ground conection: YES
- EMISSION STANDARDS

### STANDARD SPECIFICATIONS

#### 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.

#### 8. MOUNTING ARRANGMENT

#### 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

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

#### 13. WARRANTY

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

**DISTRIBUTOR IN VIETNAM: MAKAWA CO., LTD**

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

**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.