Data sheet

Type DGS18

DIESEL GENERATOR - 18 kVA STAGE V

IDEAL USAGE

Projects that require efficient and reliable low emission temporary power supply of 18 kVA including an integrated Distribution Panel

APPLICATIONS

- Temporary Power supply for projects for which connecting to an electricity grid isn't available, such as temporary accommodations and construction or other remote sites.
- Backup or bypass power supply during (maintenance) works in order to keep (industrial) equipment operational
- Additional power for (seasonal) increases in demand
- Standalone power supply for secondary processes

ELECTRICAL

Frequency			Prime		Standby		
Frequency (Hz)	Phases	Voltage(V)	kVA	kW	kVA	kW	Rated Speed
50	3	400/230V	18	15	20	16	1500

POWER FACTOR

3 Phase	0.8
1 Phase	1

RATINGS

Prime: This rating is for the supply of continuous electrical power, at variable load, in lieu of commercially purchased power. There is no limitation on the annual hours of operation and 10% overload power can be supplied for 1 hour in 12.

Standby: Standby Power (ESP) is the maximum output available, for up to 500 hours per year, where the load does not exceed 70% of the standby power.

CANOPY

Lockable Maintenance Access Doors
Door Stays
Forklift Protection Bumpers
Control Panel Viewing Window
Integral Fork Pockets
Single Lift Point
Bunding
4 Point Tie Down
High Density Fire Retardant Foam
White Paint (RAL 9010)
Heavy Duty Rental Base
Galvanised Steel Canopy

ALTERNATOR ECP28 - 2L/4

Poles	4
Winding Connections	Star
Insulation	Class H
Enclosure	IP23
Exciter System	Self Regulating brushless
Voltage Regulator	AVR
Steady State Votlage Regulation	+/- 1%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Coating	Total Protection +
Heater	Anti-condensation

ENGINE

	1500 RPM
Net Output Rating (PRP)	17 kW
Net Output Rating (Standby)	19 kW
Manufacturer and Model	JCB by Kohler KDI M 1903 E5
Fuel	Diesel
Injection	Direct
Aspiration	Naturally Aspirated
Cylinders	3
Bore and Stroke	88 x 102 mm
Displacement	1.86 L
Cooling	Water
Compression Ratio	11.5 : 1
Engine Oil Specification	API CH4 SAE 10W40
Engine Oil Capacity	8.90 L
Coolant Capacity	6.80 L
Governor	Mechanical
Air Filter	Paper Element
Engine Oil Consumption PRP	0.1% of fuel consumed
Exhaust Emission After Treatment	None
Emission Standard	Stage V

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ELECTRICAL FEATURES

AVR DSR
Winding Protection Total +
MAUX
4 Pole Moulded Case Circuit Breaker
Switchable Earth Leakage Protection
Preparation for Earth Spike
External Emergency Stop Button
Bund Alarm / Shutdown
Bus-bar M8 and Socket Panel (1x32A-3ph 3x16A-1ph)

MECHANICAL FEATURES

Cooling Pack
Air Filter
Mechanical Governer
Low Oil Pressure Switch
Coolant Temperature Sender
Oil Temperature Sender
Radiator Guards
Hot Component Guards
Manual Oil Drain Pump
Water Jacket Heater
Racor Water / Fuel Seperator
Fuel Level Sender
Internal Fuel Fill
3 Way Fuel Valve
Residential Silencer

WEIGHT AND DIMENSIONS

Length	1948 mm
Width	835 mm
Height	1423 mm
Wet Weight	1010 Kg

TYPICAL SOUND PRESSURE

LpA (7 m)	63 dB(A)

STARTING SYSTEM

Battery Capacity	110 Ah
Number of Batteries	1
Auxillery Voltage	12 V

FUEL SYSTEM

Diesel Specification	EN590
Capacity Fuel Tank	100 L

AIR SYSTEM

Intake Air Flow 100% Standby	50 Hz	82 m³/h
Radiator Cooling Airflow		0.47 m³/s

BATTERY FEATURES

Battery Isolator
Battery Type — Sealed Lead Acid
Battery Charger

EXHAUST SYSTEM

Maximum temperature	540 °C
Exhaust Gas Flow 100% Standby	2.01 m³/min
Maximum Allowed Back Pressure	5.00 kPa
Exhaust Discharge Size	45 mm

COMMUNICATION AND CONTROL

DSE 7310 Auto Start Controller
Livelink for Power

FUEL CONSUMPTION

100% Load Prime	4.45 L/h
75% Load Prime	3.29 L/h
50% Load Prime	2.24 L/h
100% Load Standby	4.93 L/h

CE PACK

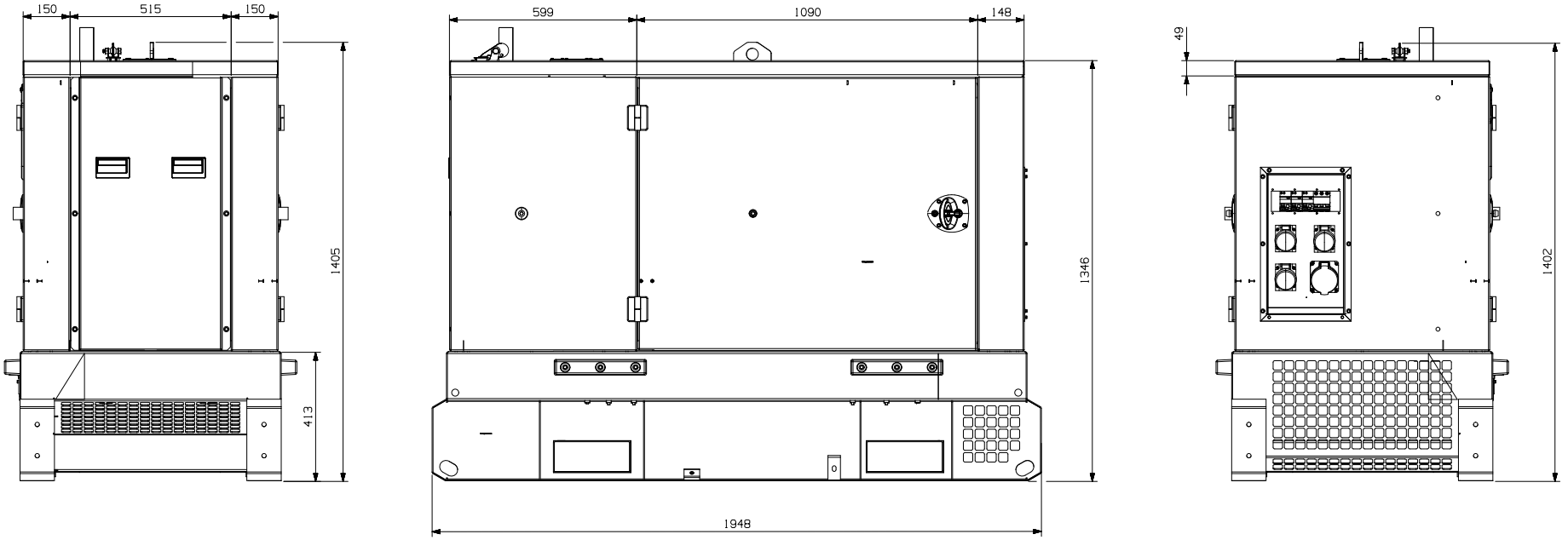
EMC Certification
Hot Guards
Belt Guards
Sound Power Decal
EU Declaration for Engine Emissions
Complete Machine Declaration of Conformity

REFERENCE STANDARDS

The Generators are CE certified and conform to the following directives (subject to a country requiring such standards)

- EN 12100, EN13857, EN60204
- 2006/42/CE Machine Safety
- 2006/95/EC Low Voltage
- 2004/108/CE Electromagnetic compatibility
- 2000/14/EC Sound Power Level (amended by 2005/88/EC)
- 97/68/EC Emissions (amended by 2002/88/EC & 2004/26/EC
- Power according to ISO 8528 and ISO 3046
- Ambient reference conditions 1000 mbar, 25 °C, 30% relative humidity ISO 3046

Information based on standard specification equipment unless otherwise stated*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