

DIESEL GENERATOR - 40 kVA STAGE V

IDEAL USAGE

Projects that require efficient and reliable low emission temporary power supply of 40 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

		Prime			Standby		
Frequency	Phases	Voltage(V)	kVA	kW	kVA	kW	Rated Speed
50	3	400/230V	40	32	44	35.2	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
- Bunded Fuel Tank
- 4 Point Tie Down
- High Density Fire Retardant Foam
- White Paint (RAL 9010)
- Heavy Duty Rental Base
- Galvanised Steel Canopy

ALTERNATOR ECP32 - 2S4C

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

ENGINE

Net Output Rating (PRP)	42.4 kW
Net Output Rating (Standby)	47.1 kW
Manufacturer and Model	JCB by Kohler KDI 2504 TCR
Engine Speed	1500 RPM
Fuel	Diesel
Injection	Direct
Aspiration	Turbo Charged
Cylinders	4
Bore and Stroke	88 x 102 mm
Displacement	2.482 L
Cooling	Water
Compression Ratio	17.4 : 1
Engine Oil Specification	API CJ4 - ACEA E9, E7, E6
Engine Oil Capacity	11.20 L
Coolant Capacity	4.20 L
Governor	Electronic
Air Filter	Paper Element
Engine Oil Consumption PRP	<0.1% of fuel consumed
Exhaust Emission After Treatment	DOC / DPF
Emission Standard	Stage V

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
 Bus-bar M8 and Socket Panel
 (1x63A-3ph 1x32A-3ph 1x32A-1ph
 1x16A-1ph)

MECHANICAL FEATURES

Cooling Pack
 Air Filter
 Electronic 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	2265 mm
Width	1050 mm
Height	1574 mm
Wet Weight	1540 Kg

TYPICAL SOUND PRESSURE

LpA (7 m)	67 dB(A)
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STARTING SYSTEM

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

FUEL SYSTEM

Diesel Specification	EN590 & EN15940
Capacity Fuel Tank	226 L

AIR SYSTEM

Intake Air Flow 100% Standby	168 m³/h
Radiator Cooling Airflow	2 m³/s

BATTERY FEATURES

Battery Isolator	
Battery Type	Sealed Lead Acid
Battery Charger	

EXHAUST SYSTEM

Maximum temperature	520 °C
Maximum temperature - Regeneration	600 °C
Exhaust Gas Flow 100% Standby	16.67 m³/min
Maximum Allowed Back Pressure	11 kPa
Exhaust Discharge Size	60.5 mm

COMMUNICATION AND CONTROL

DSE 8610 Synchronizing Controller
 LiveLink for Power

FUEL CONSUMPTION

100% Load Prime	9.56 L/h
75% Load Prime	7.44 L/h
50% Load Prime	5.43 L/h
100% Load Standby	10.32 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*

