

GBW15P



Main Features

Frequency	Hz	50
Voltage	V	230
Power factor	cos ϕ	1
Phase		1

Power Rating

Emergency Standby Power ESP	kVA	11.27
Emergency Standby Power ESP	kW	11.27
Prime power PRP	kVA	10.17
Prime power PRP	kW	10.17

Ratings definition (ISO-8528)

ESP - Emergency Standby Power:

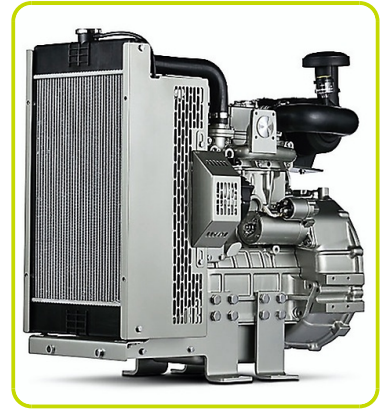
It is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

PRP - Prime Power:

It is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 h of operation shall not exceed 70 % of the prime power.

Engine specifications

Engine Brand	Perkins	
Model	403D-15G	
[50Hz] Exhaust emission level	Unregulated	
Engine cooling system	Water	
Nr. of cylinder and disposition	3 in line	
Displacement	cm ³	1496
Aspiration	Natural	
Speed governor	Mechanical	
Prime gross power PRP	kW	12.2
Maximum gross power LTP ESP	kW	13.5
Oil capacity	l	6
Coolant capacity	l	6
Fuel	Diesel	
Specific fuel consumption 75% PRP	g/kWh	252
Specific fuel consumption PRP	g/kWh	248
Starting system	Electric	
Starting engine capability	kW	2
Electric circuit	V	12



Engine Equipment

Standards

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1

Fuel system

Rotary type pump

Lube oil system

Wet steel sump with filler and dipstick

Filter

- Fuel filter
- Air filter
- Oil filter

Cooling system

- Mounted radiator
- Thermostatically-controlled system with belt driven coolant pump and pusher fan

Alternator Specifications

Alternator		Linz
Model		E1S13ME
Voltage	V	230
Frequency	Hz	50
Power factor	cos ϕ	1
Poles		4
Type		Brushes
Voltage tolerance	%	1.5
Efficiency @ 75% load	%	85.22
Class		H
IP protection		21



Mechanical structure

Robust mechanical structure which permits easy access to the connections and components during routine maintenance check-ups.

Output voltage wave form:

The low harmonic content (<5%) allows supplying any type of load, including distorting loads.

Overload:

10% overload for one hour every 6 hours is normally accepted. Short overloads can be very high (three times the rated current).

Genset equipment

BASE FRAME MADE OF WELDER STEEL PROFILE, COMPLETE WITH:

- Anti-vibration mountings properly sized
- Visual fuel level indicator
- Integrated support legs.

PLASTIC FUEL TANK, COMPLETE WITH:

- Filler neck
- Air breather (ventilation pipe)
- External fuel refilling

OIL DRAININ PIPE WITH CAP:

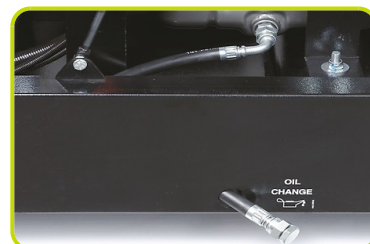
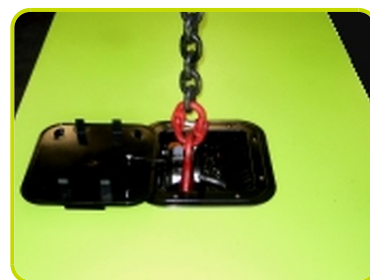
- Oil draining facilities

CANOPY:

- Single piece hinged soundproof canopy equipped with pneumatic arms and handles to lift up the canopy allowing easy access to the genset for maintenance purposes.
- Simple handling operations with central lifting eye

SOUNDPROOF:

- Noise attenuation thanks to soundproofing material (polyurethane foam) and efficient residential silencer placed inside the canopy.



Dimensional data

Length	(L) mm	1645
Width	(W) mm	870
Height	(H) mm	1072
Dry weight	kg	472
Fuel tank capacity	l	51
Fuel tank material	Plastic	

Autonomy

Fuel consumption @ 75% PRP	l/h	2.75
Fuel consumption @ 100% PRP	l/h	3.60
Running time 75% PRP	h	18.55
Running time 100% PRP	h	14.17

Noise level

Guaranteed noise level (LWA)	dB(A)	95
Noise pressure level @ 7 m	dB(A)	66

Installation data

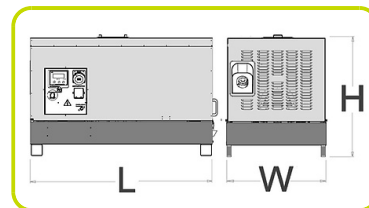
Total air flow	m ³ /min	42.38
Exhaust gas flow	m ³ /min	2.7
Exhaust gas temperature	°C	445

Electrical Data

Max current	A	49.00
Circuit breaker	A	50

Control panel availability

MANUAL CONTROL PANEL	MCP
AUTOMATIC CONTROL PANEL	ACP



MCP - Manual control panel

Manual control panel, mounted on the genset and complete of: instrumentation, control, protection and sockets

INSTRUMENTATION (ANALOGUE)

- Voltmeter (1 phase)
- Ammeter (1 phase)
- Hours-counter

COMMANDS AND OTHERS

- Start/stop selector switch with key (Glow plugs preheating function also included).
- Emergency stop button installed on canopy side.

PROTECTION WITH ALARM

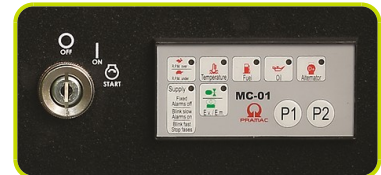
- Battery charger failure
- low oil pressure
- high engine temperature
- Earth Fault.

PROTECTIONS WITH SHUTDOWN

- Battery charger failure
- low oil pressure
- high engine temperature.
- Circuit breaker protection

OTHERS

- Emergency stop button



OUT PUT PANEL MCP

Power cables connection to Circuit Breaker.

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ACP - Automatic control panel

Automatic control panel mounted on the genset, complete with digital control unit for monitoring, control and protection of the generating set.

INSTRUMENTATION DIGITAL

- Mains voltage.
- Generating set voltage (3 phases).
- Generating set frequency.
- Generator set current.
- Battery voltage
- Hours-counter.

COMMANDS AND OTHERS

- Operation modes: OFF - Manual Starting - Automatic Starting.
- Push-buttons: start/stop, fault reset, up/down/page/enter selection.
- Emergency stop button.
- Remote starting availability.
- Automatic battery charger.
- USB port.

PROTECTIONS WITH ALARM

- Engine protections: low oil pressure, high engine temperature
- Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure

PROTECTIONS WITH SHUTDOWN

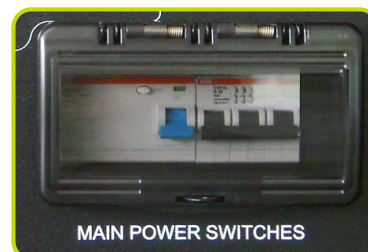
- Engine protections: low oil pressure, high engine temperature
- Genset protection: under/over voltage, overload, under/over battery voltage
- Circuit breaker protection

OTHERS

- Cover protection Power switch

OUT PUT PANEL ACP

Plinth row for connection from ACP to LTS panel.	✓
Power cables connection to Circuit Breaker.	✓



Supplements:

To be ordered with equipment (when necessary) :

ENGINE SUPPLEMENTS

PHS - Coolant Pre-Heating System	ACP
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Accessories

Items available as accessory equipment

Site trailer

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Road Trailer

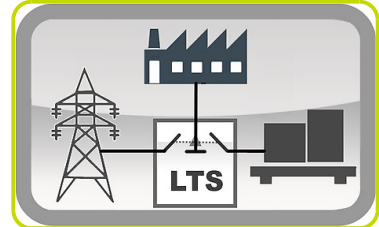
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LTS - Load Transfer Switch [Accessories for ACP Automatic Control Panel]

The Load Transfer Switch (LTS) panel operates the power supply changeover between the generator and the Mains in backup applications, guarantying the feeding to the load within a short period of time.

It consists of a standalone cabinet which can be installed separate from the generating set. The logic control of the power supply changeover is operated by means of the Automatic Control Panel (ACP) mounted on the generating set, so therefore none logic device is required on the LTS panel.



The information is aligned with the Data file at the time of download. Printed on 05/02/2024 (ID 1175)

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