

## GCW15P (ALT. LSM)



Main Features		
Frequency	Hz	50
Voltage	V	230
Power factor	cos ф	1
Phase and connection		1

Power Rating		
Standby power LTP	kVA	12.00
Standby power LTP	kW	12.00
Prime power PRP	kVA	11.00
Prime power PRP	kW	11.00

#### Ratings definition (According to standard ISO8528 1:2005)

#### 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.

## LTP - Limited-Time running Power:

It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 h of operation per year (whose no more than 300 for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Engine specifications		
Engine manufacturer		Perkins
Model		403D-15G
[50Hz] Exhaust emission level		Stage IIIA
Engine cooling system		Water
Nr. of cylinder and disposition		3 in line
Displacement	cm³	1496
Aspiration		Natural
Speed governor		Mechanical
Prime gross power PRP	kW	12.2
Maximum gross power LTP	kW	13.5
Oil capacity	ı	6
Coolant capacity	I	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 filterAir filter
- Oil filter

## Cooling system

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

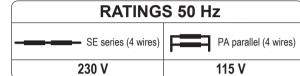


# Low Voltage Alternators - 4 pole

10 to 3300 kVA - 50 Hz / 12.5 to 3900 kVA - 60 Hz General features and ratings







## 1500 R.P.M. - 1 Phase - P.F. 1

8.12 - Dedicated winding M		kW / kVA:115/230 V						
		Excitation	1		40 °C	cont.	40 °C St.by	27 °C St.by
TYPE		SHUNT		wires	H : 125 K	F : 105 K	H : 150 K	H : 163 K
LSA 40 VS1	-	JM/4	-	4	10.5	9.5	11	11.4
LSA 40 VS2	-	JM/4	-	4	12	11	12.7	13.2
LSA 40 S3	-	JM/4	-	4	13.2	12	14	14.5
LSA 40 S4	-	JM/4	-	4	14.5	13.2	15.4	16
LSA 40 M5	-	JM/4	-	4	16	14.6	17	17.6
LSA 42.3 VS1	-	JM/4	-	4	18.2	16.6	19.3	20
LSA 42.3 VS2	-	JM/4	-	4	20.3	18.5	21.5	22.3
LSA 42.3 VS3	-	JM/4	-	4	22.4	20.4	23.7	24.6
LSA 42.3 S4	-	JM/4	-	4	25	22.8	26.5	27.5
LSA 42.3 S5	-	JM/4	-	4	28	25.5	29.7	30.8
LSA 42.3 M7	-	JM/4	-	4	31.5	28.7	33.4	34.7
LSA 42.3 M8	-	JM/4	-	4	35	31.9	37.1	38.5
LSA 42.3 L9	-	JM/4	-	4	42	38.2	44.5	46.2
LSA 44.3 S3	-	JM/4	-	4	57	51	60	63
LSA 44.3 S5	-	JM/4	-	4	69	62	73	76
LSA 44.3 M8	-	JM/4	-	4	82	74	87	90

## **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	1650
Width	(W) mm	1000
Height	(H) mm	1130
Dry weight	Kg	500
Fuel tank capacity	I	51

Installation data		
Exhaust gas flow @ PRP	m³/min	2.7
Exhaust gas temperature @ LTP	°C	445

Control panel availability	
AUTOMATIC CONTROL PANEL	ACP



## **ACP - Automatic control panel**

Automatic control panel mounted on the genset, complete with digital control unit AC03 for monitoring, control and protection of the generating set.

#### **INSTRUMENTATION DIGITAL (AC-03)**

- · Mains voltage.
- Generating set voltage (3 phases).
- Generating set frequency
- Generator set current (1 phase).
- · Battery voltage
- · Hours-counter.

#### **COMMANDS AND OTHERS**

- Four operation modes: OFF Manual starting Automatic starting Automatic test
- · Pushbutton for forcing Mains contactor or Genset contactor
- Push-buttons: start/stop, fault reset, up/down/page/enter selection
- Emergency stop button.
- · Remote starting availability.
- DC system disconnection switch
- Automatic battery charger
- Settable PASSWORD for protection level

#### 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: III poles
- · Differential protection

## **OTHERS**

• Cover protection Power switch







