

## OPEN GENSETS WITH LOMBARDINI ENGINE



<b>1500 RPM</b>	<b>400/230 V 50 Hz</b>	<b>Type AL-016</b>	<b>15,5/12,4 Kva/KW (PRP)</b>	<b>17/13,6 Kva/KW (LTP)</b>
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**Engine:** LDW1603  
**Alternator:** ATN-28 2VS/4

### **Scope of Supply:**

The engine and the alternator are mounted together forming a rigid monoblock, the shafts are connected by a flexible disc connection. The monoblock is mounted on a steel base frame via silent blocks. The base frame is including a fuel tank. Starting is electric and it includes a battery. The genset monitoring system consist of a control module.

### **GEN SET POWER**

<b>Voltage</b>	<b>Hz</b>	<b>Phase</b>	<b>Cos Ø</b>	<b>PRP* Kva/KW</b>	<b>LTP** Kva/KW</b>	<b>Amp.</b>
415/240	50	3	0,8	15,5/12,4	17,1/13,64	23,7
400/230	50	3	0,8	15,5/12,4	17,1/13,64	24,6
380/220	50	3	0,8	15,5/12,4	17,1/13,64	25,9
240/120	50	3	0,8	15,5/12,4	17,1/13,64	41,1
230/115	50	3	0,8	15,5/12,4	17,1/13,64	42,8
220/110	50	3	0,8	15,5/12,4	17,1/13,64	44,8

#### **PRP\* Kva/KW:**

Available electrical power (at a variable load) with a medium of 60% of the indicated maximum power. A 10% overload capability is available

#### **LTP\*\* Kva/KW:**

Available electrical load (at a variable load) during a maximum of 500 hours per year. No overload capability is available.

### **Control Cubicle Alternatives**

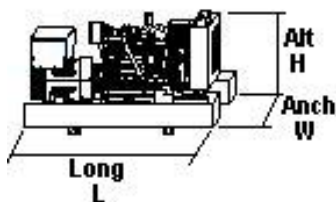
Manual/Remote Control Cubicle:: STANDARD MCP SAM 712 / OPTIONAL MCP DSE 710

Automatic Control Cubicle: STANDARD ACP DSE 720 / OPTIONAL ACP DSE 5320

### **Options::**

Please see the price list

## TECHNICAL DATA

Engine		Alternator	
Engine type:	LDW1603	Alternator Type:	ATN-28 2VS/4
Eng. Power kW COP:	-	Nº of poles:	4
Eng. Power kW PRP:	14	Eff. At 3/4 %:	83
Eng. Power kW LTP:	15,5	Eff. At 4/4 %:	82
Nº Cylinders:	3	Alt. rating PRP kVA III Kw II:	15
Displacement cm3:	1649	Alt. rating LTP kVA III kW II:	16,5
Bore/stroke (mm/mm):	88/90,4	Output Power PRP kVA III kW II:	14,4
Compression ratio:	22,1	Output Power LTP kVA III kW II:	15,9
Cooling:	WATER	Current Amp PRP:	21,5
Injection:	DIRECT	Current Amp LTP:	23,7
Aspiration:	NATURAL	Standard Circuit Breaker (Amp):	25 IV
Standard governor:	MECHANICAL	Xd (%):	-
Governing control quality:	G2	X'd (%):	-
Speed droop mech gov. (%):	5	X:	-
Exhaust gases temperature (°C):	-	Nº of wires:	12
Exhaust gases flow (m3/h):	-	Insulation:	H
Max Exh. Back pres. (mbar):	-	Regulator AVR:	Compound
Coolant capacity (lit.):	6,5	Protection:	IP23
Cooling air flow (m3/h):	2399	<b>DIMENSIONS</b>	
Max allow. Intake dep. (mbar):	-		<b>Height:</b> 1100 mm
Combustion air flow (m3/h):	61,8		<b>Width:</b> 620 mm
Oil cap. (Litres):	3,8		<b>Length:</b> 1290 mm
Oil cons. (kg/hr or % of fuel cons):	0,019		<b>Weight:</b> 400 kgs
Min oil press warning (bar):	1,5		<b>Tank:</b> 37 lit
Fuel cons. 25% lit/h:	1,37		
Fuel cons. 50% lit/h:	2,74		
Fuel cons. 75% lit/h:	4,06		
Fuel cons. 100% lit/h:	5,4		
Electric system VDC:	12		
Type:	Neg to ground.		
Battery (Ah):	60		
Starting motor (kW):	-		
Flywheel Housing:	-		

### Technical information available in download section.:

Engine technical data	Alternator Technical data	Gen Set Drawing	Instalation drawing	Control cubicle descr.
Engine manual	Alternator Manual	Gen Set Manual	Gen Set Condensed Man.	Controler manual

## Control Cubicles



### **AUTOMATIC/MANUAL CONTROL MODULE: ACP-MCP DSE 5320**

#### DSE 5320 CONTROLLER

- The Model 5320 is an Automatic Mains Failure Control Module. The module is used to monitor a mains supply and automatically start a standby generator set..
- Operation of the module is via pushbutton controls with STOP/RESET, MANUAL, TEST, AUTO and START
- The controller has a J 1939 CANBus interface for connection to modern engine ECU's. This enables engine protection and instrumentation without requiring additional sensors. Engine diagnostic information removes the need for both service equipment and cryptic diagnostic
- Comprehensive remote communication via RS232 port connecting via modem or PC. It is also possible to monitor and control the system via PC up to 100metres (111 yards) from the controller
- Standard IV poles circuit breaker (until 85 Kva.)



### **AUTOMATIC CONTROL MODULE : ACP DSE 720**

#### DSE 720 CONTROLLER

- The Model 720 is a Manual or Automatic Start Control Module. The module is used to manually or automatically start and monitor a generator set.
- Operation of the module is via pushbutton controls with STOP/RESET, MANUAL, TEST, AUTO and START
- Communication via interface or cable via PC. Selected timers and alarms can be altered by the customer from the front panel. Alterations to the system are made using the 810 interface and a PC. This interface also provides real time diagnostic facilities. It is also possible to monitor and control the system via PC up to 100metres (111 yards) from the controller.
- Standard IV poles circuit breaker (until 85 Kva).



### **MANUAL-REMOTE START : MCP DSE 710**

#### DSE 710 CONTROLLER

- The Model 710 is a Manual or Automatic Start Control Module.
- The module is used to manually or automatically start and monitor a generator set.
- The module also provides indication of operational status and fault conditions,
  - Control via interface or cable via PC
- Operation of the module is via pushbutton controls mounted on the front panel with STOP/RESET, MANUAL, AUTO and START pushbuttons.
- Standard Circuit Breaker and differential relay.



### **MANUAL -REMOTE START CONTROL MODULE: MCP SAM 712**

#### SAM 712 CONTROLLER

- Manual or Automatic remote start controller, Selector switch for Off, Man and Auto with key. Complete engine protection functions with alarms visualised via LEDs in the front. The controller is set up via 6 DIP switches in the rear of the case.
- Standard circuit breaker and differential relay.