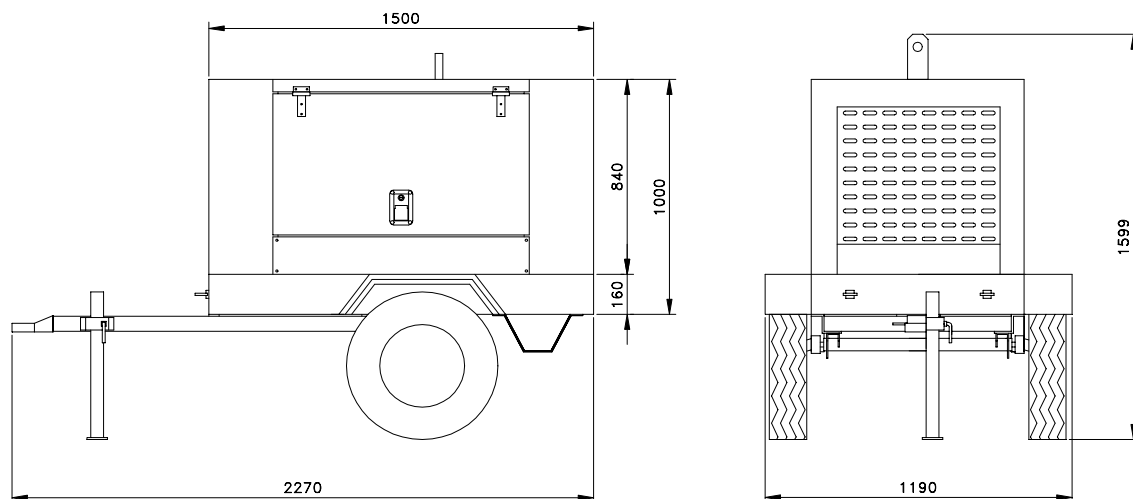


High Power Industrial Welder

PS-DS 400L

OUTPUT as a generator set 3000 rpm/50 Hz: 15 kVA, 12000 W

Maximum welding CURRENT with 7 mm electrode: 400 A



CONSTRUCTION

Unit consisting of engine and alternator mounted on a fabricated steel profile baseframe painted with a phosphosphate primer and top coat.

The alternator is coupled directly to the engine flywheel housing to SAE standards. The rotor is fixed to the flywheel using steel discs for flexibility. Perfect alignment and the absence of vibrations are thus guaranteed.

The unit is fixed to the baseframe using anti-vibration dampeners.

Supplied on independent trailer. Includes metal canopy housing control panel which is operated using an ignition key. Pincers and cables also supplied (3 m welding cable and 2m ground cable). Mask not included.

Metal canopy

Ideal for outdoor use, it is painted with a phosphate primer and long lasting top coat.

TRAILER

Consists of wheels with tyres, DIN towing eye, rubber axle suspension and support leg.

Optionally: **TRAILER ADAPTED FOR ROAD TRANSPORTATION**
Jockey wheels

Control panel

Metal cabinet mounted on frame using anti-vibration dampeners. Equipped with:

- Thermo-magnetic circuit breaker.
- 1 ammeter.
- Voltmeter.
- Hours run meter.
- Three phase output socket.
- Single phase socket.
- On light.
- Battery charge indicator lamp.
- Oil pressure indicator lamp.
- Ignition key.

Shutdown using manual choke.

ENGINE

Type.....	4-stroke diesel engine with direct injection.
Manufacturer	Lombardini
Model.....	9 LD 625.2
No. of cylinders.....	2
Engine capacity	1248 cc
Bore	95 mm
Stroke	88 mm
Compression ratio	17.5:1
Aspiration.....	Atmospheric
Engine speed.....	3000 rpm
Prime power	26 HP DIN Nb 6270
Fuel consumption at 100 % load	4.9 ltr/h
Fuel tank capacity.....	10 litres
Approx. running time without refill	2 hours
Noise level	82.5 dB(A) at 7 metres

Cooling system

Cooled by air forcing fan on flywheel.

Cooling air flow 26.3 m3/min

Lubrication system

Forced lubrication via gear type pump. Oil filter.

Oil sump capacity 2.8 litres

Consumption..... 0.058 kg/h

Air intake system

Natural intake via oil soaked air filter.

Combustion air flow 1.87 m3/min.

Injection system

Injection pump submerged in block with centrifugal governor. Fuel filter.

Electric system

12V electric starting with axial starter motor.

55Ah battery.

Battery charge alternator.

Oil pressure sensor (only for electric start version).

Protection system

Visual alarm if oil pressure too low. Optionally, alarm system with automatic engine shutdown for low oil pressure.

Exhaust system

Manifold silencer.

ALTERNATOR

Class H insulation. Windings impregnated in tropical varnish. Steel housing, cast iron lining and C50 steel shaft. Permits 10% overload for 1 hour every 6 hours. Intermittent overload max. 400% every 20 seconds.

The alternator includes 2 welding terminals (1 neg./ 1 pos.) and one battery charge outlet 12-24V

Operation as a generator set:

Manufacturer	MECC ALTE
Model	ST 28-400 MD 35
Frequency	50 Hz
Speed	3000 r.p.m.
Power rating	15 kVA

Operation as a welding set:

Max. Current	400 A
Voltage peak	60/78 V
Uninterrupted regulation	30/240 A
Welding voltage	20/38 V
Transmission power	26 HP

Voltage 12/24 V on battery charger, max. 25 A.