

# Generator 40kVA

Zone2 Rated

DNVGL 2.7-1/EN10855

The Generator has been designed for wireline operations where an independent power supply is required. The frame incorporates forklift pockets and lifting padeyes for crane handling.

A wide range of generator Zone2 and certified DNV GL2.7-1 / EN10855 (ex EN12079), from portable 10kva up to 400kva can be manufactured.

A wide range of  
stand-alone power  
generators for hazardous  
area zone2.

## Diesel Genset 40kVA Zone2

- Diesel engine ATEX water cooled Perkins 1104C-44TG2 or equivalent 59kW @ 1500rpm & 68kW @ 1800rpm
- Spring Starter Zone2 compliant
- Diesel Engine Protection EN1834-1 ATEX94/9/EC
- Water cooled exhaust manifold and heat exchanger for T3=200deg
- Inlet flame trap for IIB operation
- Inlet shut down valve and fuel shut down
- Exhaust flametrap
- Crankcase ventilation flametrap
- Antistatic fan belts
- Spark arrestor
- High water coolant temperature shut down at 100deg C
- High exhaust gas temperature shut down at 200deg C-T3
- Low oil pressure shut down at 0.8bar
- Overspeed valve shut down
- Screw fitting oil dipstick/ filter cap
- Brushless alternator twin bearing Miretti (original Mecc Alte alternator TE34-15/4)
- Connectors Marechal 240v 1ph and 400V 3Ph
- Totally enclosed TEFC air cooled IP55 non sparking
- Voltage Regulation AVR
- ExnA/BIIT3, Atex 3G
- Class H insulation continuously rated and twin bearing
- Control box ATEX Zone2
- MCCB/ ELCB 30mA
- Clearly laid out ergonomic anodized aluminium control panel
- with engine speed/ oil pressure/ oil temperature/ coolant temperature/ exhaust temperature/ air pressure gauges and hour meter
- Protection for all drive belts
- Sound attenuated protection (doors)
- Skid mounted frame structure certified DNVGL2.7-1/ EN10855

## Dimensions & Weight

Dimension (L x W x H)	m	2.35 x 1.35 x 1.72	ft	7.71 X 4.43 X 5.64
Weight MGW	kg	3000	lbs	6614



# Specifications

## General

Lifting Frame Standard	Sound Level @ 1 meter	Starting System	Paint Coating	Sling Set
DNVGL 2.7-1 BV	85 - 95 dBa	Spring Starter (pre-engaged, ATEX approved)	Hempadur Zinc 15360	BV approved with Crosby shackles

## Engine

Manufacturer Model	Power 1500rpm / 1800 rpm	Fuel Type	Turbo	Air Intake	Paint Coating
Perkins Electropak 1104A-44TG2 Mechanical governor	59kW / 68kW	Diesel (with integrated tank for 10 hours full load running) Fuel Consumption: 15L/Hour Max Tank Capacity: 180L	Yes	Chalwyn/Miretti	TDS 1505 Epoxy HR

## Alternator

Manufacturer Model	Output Power	Output Frequency	Output Voltage	Power Factor	Standard Conformity	Paint Coating
Mecc Altel TE34-1S/4	40kVA (32kW)	50Hz (or 60Hz)	415VAC 3-Phase 230VAC 1-Phase	0.8	IEC EExn IIA T3 ATEX 3G Zone 2	TDS 1505 Epoxy HR

## Engine Control

Manufacturer	Engine Parameters	Engine Control	Engine Control
Wilitec	Water temperature gauge Exhaust temperature gauge Oil pressure gauge	Fuel shut down Overspeed valve shut down	Engine Controller & Display Electrical sensors & solenoids

## Electric Control Panel

Manufacturer	Earth Fault Protection	Electrical Outputs Monitor	Options
	Electrical Outputs Monitor	Ex d panel box with protection system and indicator: ● 1 analog volt meter 0-500 V, with selector switch ● 1 analog ammeter 0-400 A, with selector switch ● 1 analog frequency meter	Alternator Controller & Display
CORTEM	ELCB 30mA	Electrical Protection: ● 1 MCCB 100A 4P + RCCB/ELCB 30mA c/w handle on panel door ● 1 MCB 16A 2P c/w handle on panel door	
MARECHAL	Connectors	Ex d e outlet sockets: ● 1 socket 1P+N+E, 380-440 VAC, 125 A ● 1 socket 1P+N+E, 220-250 VAC, 32 A	

## System includes:

- High water coolant temperature shut down at 100deg C
- High exhaust gas temperature shut down at 200deg C-T3
- Low oil pressure shut down at 0.8bar
- Overspeed valve shut down

## Options:

- Option starter : Electrical - Hydraulic - Air
- Option enclosure sound proof
- Option engine marine type



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