

# Generator 100kVA

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 100kVA Zone2

- Diesel engine ATEX water cooled Perkins 1106A-70TG or equivalent 118kW @ 1500rpm & 133kW @ 1800rpm
- Spring/ Air / Hydraulic / Electric starter zone2
- 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 MARATHON alternator 432RSL4013 IP44 rated, certified ATEX Zone2 per EN60079-0 and EN60079-15, IECEx per IEC60079-0 and IEC60079-15 IP54 for connection area
- Digital voltage regulator: DVR2000E
- Lightning arrestor and surge capacitor
- Space heater
- Stator winding RTD's
- 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
- Skid mounted frame structure certified DNVGL2.7-1/ EN10855

## Dimensions & Weight (Container 14ft)

Dimension (L x W x H)	m	4.25 x 2.45 x 2.59	ft	14.90 x 8.00 x 8.50
Weight MGW (certificate)	kg	10000	lbs	22046



**WILITEC**  
Engineering & Services

# Specifications

## General

Lifting Frame Standard	Sound Level @ 1 meter	Starting System	Paint Coating	Sling Set
DNVGL 2.7-1 BV	85 - 95 dBa	Electrical 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 1106A-70TG with Full Miretti Engine Protection System	118kW /133W	Diesel (with integrated tank for 8 hours full load running) Fuel Consumption: 25L/Hour Max Tank Capacity: 200L	Yes	Chalwyn/Miretti	TDS 1505 Epoxy HR

## Alternator

Manufacturer Model	Output Power	Output Frequency	Output Voltage	Power Factor	Standard Conformity	Paint Coating
Marathon Regal 432RSL4013	100kVA (80kW)	50Hz 60Hz	380-440VAC 3-Phase 220-240VAC 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
CORTEM	ELCB 30mA	<p>Ex d panel box with protection system and indicator:</p> <ul style="list-style-type: none"> <li>● 1 analog volt meter 0-500 V, with selector switch</li> <li>● 1 analog ammeter 0-400 A, with selector switch</li> <li>● 1 analog frequency meter</li> </ul> <p>Electrical Protection:</p> <ul style="list-style-type: none"> <li>● 1 MCCB 150A 4P + RCCB/ELCB 30mA c/w handle on panel door</li> <li>● 1 MCB 32A 2P c/w handle on panel door</li> </ul> <p>Ex d e outlet sockets:</p> <ul style="list-style-type: none"> <li>● 1 socket 3P+N+E, 380-440 VAC, 200 A</li> <li>● 1 socket 1P+N+E, 220-250 VAC, 32 A</li> </ul>	Alternator Controller & Display

## 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
- ESD (Emergency Shut Down) air system, air supply from the platform  
(no air=> engine shut down)



certificate by



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