

Generator 50kVA

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 50kVA Zone2

- Diesel engine ATEX water cooled Perkins 1104C-44TG or equivalent 64kW @ 1500rpm & 75kW @ 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	2.80 x 1.30 x 2.00	ft	9.19 x 4.27 x 6.56
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-44TG1 Mechanical governor	64.3kW / 75.5kW	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	50kVA (40kW)	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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