

Flitmate

340kW Diesel Power Generator

Technical Specifications Guide



Products that show their best advantage when mine conditions are most difficult.

Flitmate

340kW Diesel Power Generator

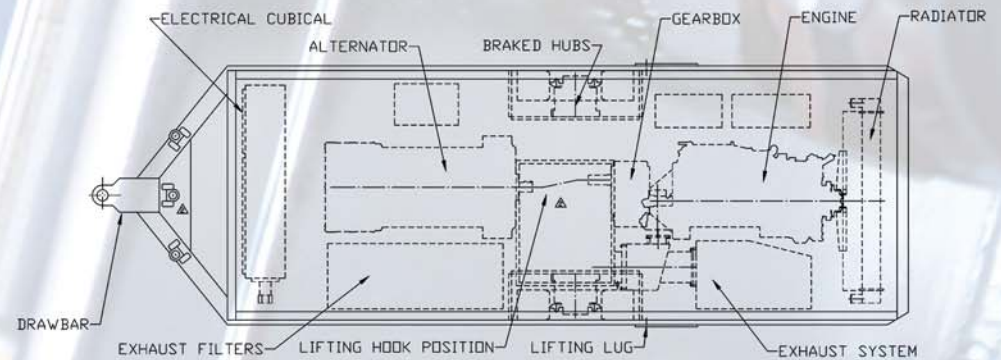
The Industrea Mining Equipment Flitmate Diesel Power Generator provides a consistent reliable power source for all your high powered equipment relocation requirements.

Basic Features

- Trailer mounted 3 Phase generating set
- Diesel driven synchronous alternator through a reduction gearbox
- Designed to provide the power to 'flit' or 'tram' 1000V powered underground mining machines.
- Braked trailer with retractable wheel units & stab jack
- 340kW (320kW Continuous) of electrical power at 1000 volts
- Fully fire-protected Diesel Engine System to AS/NZS 3584.1
- Electrical systems fully compliant to AS/NZS 4871.1
- Braked trailer with retractable wheel units & stab jack
- Very low emissions
- Electronic, digital, engine control and protection system
- Catalytic Oxidiser
- Optional SCR - Selective Catalytic Reducer
- Water based Conditioner reduces smoke
- Particulate filter removes remaining smoke

Dimensions

Gross Mass:	13,000kg
Length:	7100mm
Width:	2280mm
Height:	1750mm



Installed **Tier 3** Diesel Engine System.

DIESEL ENGINE SYSTEM

ASNZS 3584.1 compliant

Cat® C-15E DI TA SC

Rated 372kW ± 3% @2070rpm

Tier/Stage 3 compliant

750rpm (low idle) 2070 rpm (gov) Turbo-charged

SCAC charge cooling

Engine emergency stop system

'Dry' inlet filter

MANAGEMENT & PROTECTION

CAN-Bus system SAEJ1939

iGuard programmable monitoring

EXHAUST SYSTEMS

Catalytic Oxidiser (DOC)

Selective Catalytic Reducer (option)

'Wet' Conditioner/cooler

Particulate filter (DPM)

COOLING

Cross-flow, fully tinned Radiator

'Multi-wing' fan

2 x 'Header' Tanks

GEARBOX

Ratio – 2070-1500 rpm (1.38:1)

Torque >7200 Nm

Power > 372 kW

TRAILER BRAKES

Multi-plate, totally enclosed, oil immersed.

TYRES & RIMS

Rims, 2 piece, 10 M22 studs

Tyres, 9.0 X 20, Solid-filled

HYDRAULIC SYSTEM

Fully retractable wheel units

Front 'stab' jack

Load-lock valves – all functions

FIRE SYSTEM

Automatic & manually operated system fitted.

Fire extinguisher fitted

ELECTRICAL SYSTEM (1000V)

ASNZS 4871.1 – 2 (as applicable)

Fault level >7.3 kA (1 sec)

Earth fault limit 5A (resistive)

Main Circuit Breaker (MCCB) >10kA

Main Contactors – vacuum, reversing

MANAGEMENT & PROTECTION

Functions

Earth leakage – lockout

Back-up earth leakage – star Alternator

Contactor freeze-in

Alternator thermistors

Under-frequency

Over-voltage

Earth continuity (3)

Flag & Light indication

Metering

Ammeter

Power

Volts

Hz

ALTERNATOR

Rated 450kW (563 KVA)

1000V 50Hz ±0.5%

Sustained short circuit 250% (10s)

2 bearing, B10 40,000hrs

IP65 (as installed)

AVR – Digital micro-processor

AUTO-ELECTRICAL

24V DC system

Ex.d MCB, nv trip

24V LA start battery system

In-built charging system (240V AC)

Machine lighting

COOLING RETICULATION

Water cooling for remote powered machines.

1000 ltr / hr at 20m (head)

METHANOMETER

Automatic Methanometer fitted

Prevents start on high methane

Stops engine, shuts off power on high methane.

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