

BARCLAY STANDBY POWER

DATA CENTRES, CAT, MTU DIESEL



DESCRIPTION

Barclay Data-Centre Standby Power Generation Modules

Offering Caterpillar or MTU engines. 1.63 MW - 2.176 MW @ 50Hz or higher power configurations. Generally, diesel, could be gas-fuelled.

OVERVIEW

Specifically designed and engineered for Data Centre Emergency Standby Power. Generally 12.7mL, 3.2mW, 4.1mH, dry weight circa 40tonnes.

KEY POINTS

- › **Made in Perth**, Western Australia for the Australian Data Centre Market
- › **Fast delivery ex-factory in under 12x weeks:** (engines generally ex-stock)
- › **Tier 1 Diesel engines:** Caterpillar or MTU prime movers
- › **CIF** generally Kerb Side Data Centre Building



SPECIFICATIONS

Generator Set Specifications

Output	Cat or MTU 1.6MW – 2.176 MW. (for specials can provide up to 3.0 MW+).
Output Voltage	Either 415 V, 630 V, 11 KV.
Frequency	50 Hz.
Speed	1500 RPM.
Fuel	Diesel or Bio-diesel (or gas if specified).
Control system	Refer OEM generator control system or COMAp or custom built by DC designer.

Module Specifications

Barclay Enclosure	Wholly owned IP, acoustic enclosure, intake/discharge ducts, attenuators, moisture eliminators. Have built as low as 65dBa.
RF Attenuation	Sub-transient reactance to meet international standards.
Engines	Caterpillar or MTU latest models Tier 1.
Fuel Day tank	1000L Day Tank.
Oil Day tank	200L oil tank is option.
Remote monitoring	Remote monitoring 24/7 from anywhere worldwide.

Cooling system	Internal skid mounted factory radiators.
Exhaust system	Barclay IP roof mounted exhaust and muffler.
Fire protection	Option of onboard fire detection and suppression, building code compliant.
Power protection	Option of onboard Air Circuit Breaker isolator (ACB), available if specified.
Fuel system	Designed to meet client DC specification and HSSE safety standards.
Belly tank	Auxiliary belly tanks are option.
Light and power services	Small general service light and power system with distribution board within module.

BARCLAY DATA CENTRE BUILD SPECIFICATIONS

General specification with options.

- › Barclays IP Galvanised base frame.
- › Barclays IP acoustic panels.
- › Fat Tests Factory Acceptance Tests in house. EGMs delivered to Site are Duty Ready.
- › External Finish is dual coat epoxy enamel.
- › QA fully documented includes four (4) Hold and Witness points (Base, Frame and Acoustics, FAT and Commissioning).
- › Handover: In conjunction with the QA there is a full client handover including operational readiness training.
- › Warranties. All installations are fully supported including the manufacturer’s engine warranty.
- › Vision Ports on IP54 Doors.
- › Anti Vibration Engine mounts.
- › Weather proof inlet and outlet louvers, water droplet separators.
- › Options include fire detection and suppression, fire water misting, HV Cabinets and pre-wire, belly tanks.
- › Internal and external LED lighting.





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