

# DIESEL/GAS GENERATORS

## 1000V



- First in class Patented Direct 1000V output, no transformers required
- 12 Cylinder Cummins & Rolls Royce Engine Options for ultimate reliability and serviceability
- Deepsea synchroniser to allow parallel and grid tie operations for seamless changeover
- ABB MCCB Complete with mine spec earth leakage toroid and shunt trip
- 7800L on board fuel tank plus 30,000L & 80,000L external fuel tank options
- Real time Condition Monitoring for predictive maintenance and reliability.
- Acoustic silencing containerised canopy for sound deadening and protection from elements

**Automation Engineers Australia** are market leaders in bespoke electrical turnkey solutions. Just as bespoke as your ever changing needs. We pride ourselves on being able to meet the increasing demand for fast turnarounds and customised systems to keep you going.

# SPECIALISTS IN HARD ROCK MINING

We have completed projects big and small in Australia, Africa, North and South America and Europe; we understand standards and ensure compliance no matter where your next project is.

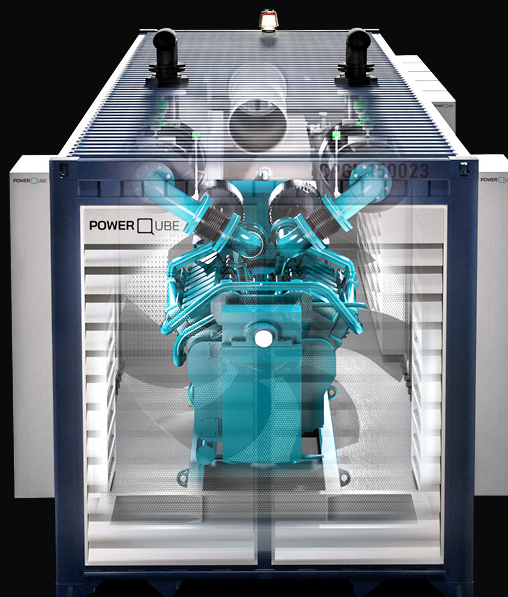
Introducing **PowerQube**, our elite range of products providing 'Ready to Rock n' Roll' Solutions. we have ready-made pump, fan and conveyor Motor Starter Panels Ready for immediate delivery.

Mine-spec generator and chiller solutions are all apart of our complete offering under the PowerQube Brand.

None of these could be possible without power, we offer industry first 1000V generators, complicated step up transformers which not add more to the cost but also increased risk are now a thing of the past.

Australian design and ingenuity for an Australian Market has allowed us to develop our new range of generators.

## POWER UBE







## OUR 1000V DIESEL/GAS GENERATORS ALL INCLUDE:

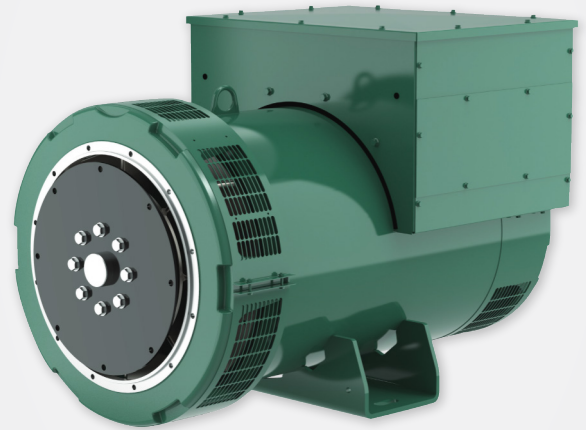
- 12 Cylinder Cummins & Rolls Royce Engine Options for ultimate reliability and serviceability
- Deepsea synchroniser to allow parallel and gird tie operations for seamless changeover
- 4G/3G & Wi-Fi Connectivity and out of the box integration into AEA MineManagerPro
- AS5062:2016 Verified fire suppression system on board
- 1000V Rated Flex Cabling
- 79dB @ 1M Acoustic silencing containerized canopy for ultimate sound deadening and protection from elements
- External Australian Made Coolon LED lighting
- 7800L on board fuel tank plus 30,000L & 80,000L external fuel tank options
- ABB MCCB Complete with mine spec earth leakage toroid & shunt trip
- Mining Spec Labelling/Decals

## Only years of experience in mining can lead us to design an offering like no other...

The biggest issue faced these days is flexible and reliable power solutions with often developments and pits being at the mercy of power availability. Traditional setups included oil filled step-up or step-down transformers, which brought inherent risks and slowed down installations.

Traditional generators pose a high fire risk particularly if placed underground as fire suppression and mitigation is not standard in traditional industrial generator sets.

With a fresh new approach we have developed a singular package which increase safety and provides flexible power solutions faster than traditional installations.



- World first 1000V Patented design alternator provides ultimate flexibility. No more risky, costly and cumbersome transformers
- World first generator system to include on board fire suppression as standard conforming 5062:2016 complete with independent risk assessment and verification documentation. No more onsite retrofits and reverse engineering.
- World First Australian designed and built generator system by Australians, for Australian conditions. Out of the box all electrics, controls and decals are mine specific.
- World first generator system to include on board real time condition monitoring providing critical monitoring and predicative analysis for your critical demands.
- World first generator system to include on board PLC and IPC to integrate natively with site equipment and infrastructure for demand response and load control.
- World first 1000V system with no HV ticketing or HV supply required providing ultimately mobility and flexibility.

# SPECIFICATIONS

Rated Power	1650KVA Prime 1000 Volts 50HZ 3P+E
Engine/Alternator Controller	Deepsea 8920
Engine	Cummins Fuel optimized KTA50-G8 Turbocharged and aftercooled
Diesel Particulate Filtering	Predator Dual Stage Catalyst Reduction of Hydrocarbons by 95% Reduction of CO by 95% Reduction of Particulate Matter by 20% Ensuring compliance to Revised 2021 EPA legislation
Fuel	Diesel
Fuel Consumption	¼ 92      ½ 165      ¾ 253      Full 345      L/hr
On Board Fuel Storage	6700 Liter Safe Fill
On Board Fuel Filtration	Pre Fuel tank – Dual changeover Single stage 25 Micron Parker Racor Coalescer/Separator, Water absorber & Particulate filter Post Fuel Tank to Pre Engine fuel filter – Dual Changeover Dual Stage 25 Micron & 5 Micron Parker Racor Coalescer/Separator, Water absorber and Particulate filter
Dimensions	40FT Hi Cube Container 12.19M x 2.44M x 2.99M   L W H
Sound Rating	70dB @ 1M
Sound dampening features	100mm Sound attenuation paneling on all interior walls 600MM Sound attenuating louvres Sound attenuated doors Silencer exhaust manifolds in cabin interior to reduce external height & Sound
Fire Suppression	On Board Fully Automatic Foam Fire suppression system routed throughout entirety of package. Designed and built to AS5062:2016 Complete with Risk Assessment and verification report
Field Electrical Connections	Dedicated electrical hookup box complete with 3 Pole ABB ATS/MCCB and earth leakage relay
Electrical Control Features	Beckhoff PLC/HMI for condition monitoring, load control and integration to load control systems
Condition monitoring and protection	Engine and Stator fitted with vibration and temperature condition monitoring for predictive maintenance and critical control safeties for asset longevity.
Connectivity	Coolon LED perimeter lights as well as cabin interior lights





Mining operations in Australia are becoming more dynamic and reactive than ever and we understand you just want to get on with what you do best, mining.

Offering flexible finance offering including rent, lease and purchase options for all of our systems, gives you the flexibility to integrate the equipment you need around your cash flow and operational cost management.

With design, supply, installation and ongoing 24/7 support at the core of **Automation Engineers Australia**, you can rest assured when help is needed, we are always on hand.

**Automation Engineers Australia** is certified by Bureau Veritas in ISO9001, ISO14001 and ISO45001, so you have peace of mind, from start to finish, you will be delivered a quality product which gives you the confidence to...

***Rock On!***

*Proudly distributed through...*

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**POWER**  **UBE**



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