GENVAR™



GENVAR-BLUE™ HYBRID GENERATOR PACKAGES



GENVAR-BLUE™ *the future is here*

Real solutions for real-world situations

GENVAR-BLUE™ generator sets are designed specifically for the harsh Australian mining environment.

Drawing upon our 30+ years of experience supplying pumping and power generation equipment to the mining industry, we have designed and created a range of mine spec hybrid generator packages that meet or exceed your underground water pumping needs.

Easy to control

With your choice of controller, GENVAR™ gensets are compatible with many popular industry-standard control systems including Schneider and Allen Bradley PLCs. Remote monitoring is also available on demand.



You're in control. GENVAR units maximise the efficiency of your operations by giving you complete control - either through our advanced HMIs, like the InteliVision, Harmony GTO HMI, Allen Bradley PanelView, all capable of interfacing with existing site SCADA control systems.

Integrated, all-in-one solution

Integrating bore/headworks to the GENVAR gensets offers rapid setup and relocation. We build each component to work seamlessly with each other delivering maximum efficiency and durability.



Quality assured with Allied Pumps

Allied Pumps is ISO-certified and operates from over 15,000 square metres of advanced manufacturing and testing facilities, including a Certified AS2417 Test Rig.

QUALITY ASSURANCE ISO 9001:2015 CERTIFIED

HEALTH & SAFETY ASSURANCE ISO 45001:2018 CERTIFIED

ENVIRONMENTAL ASSURANCE ISO 14001:2015 CERTIFIED

GENVAR-BLUE™ *increased savings, less emissions, clean power*



No more dummy loads

Traditional dewatering operations often rely on dummy loads to maintain generator efficiency and prevent wet stacking during low-demand periods.

With GENVAR-BLUE, our hybrid generator system intelligently balances power output and demand, eliminating the need for wasteful dummy loads.

By integrating battery storage and smart energy management, GENVAR-BLUE ensures:

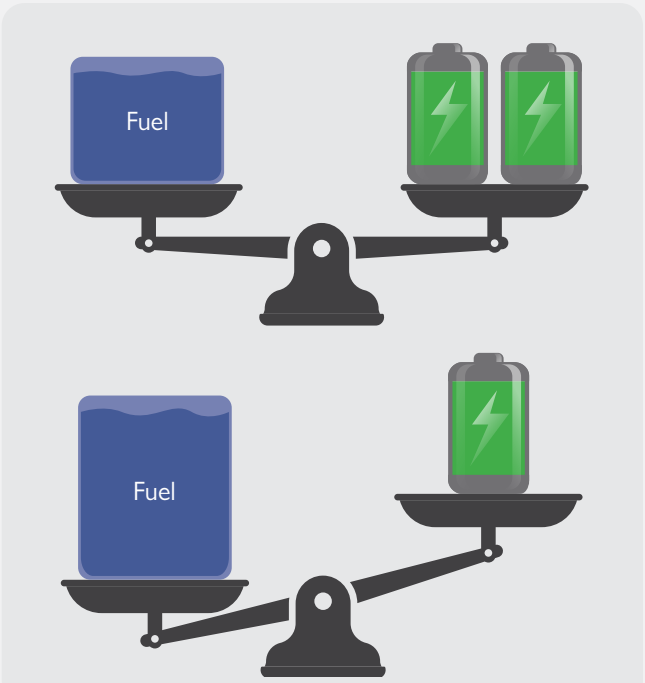
- Optimal performance across variable loads
- Reduced fuel consumption
- Reduced maintenance of hydrocarbon equipment
- Extended equipment life
- Lower operating costs

Wide range of engine options

GENVAR-BLUE isn't a one-size-fits-all solution. Allied Pumps has designed this hybrid generator to be compatible with all major engines and alternator brands including Cummins, Volvo, and Perkins.

IVECO · Cummins · VOLVO PENTA · DEUTZ · Perkins · mtu

Works with your choice of motor

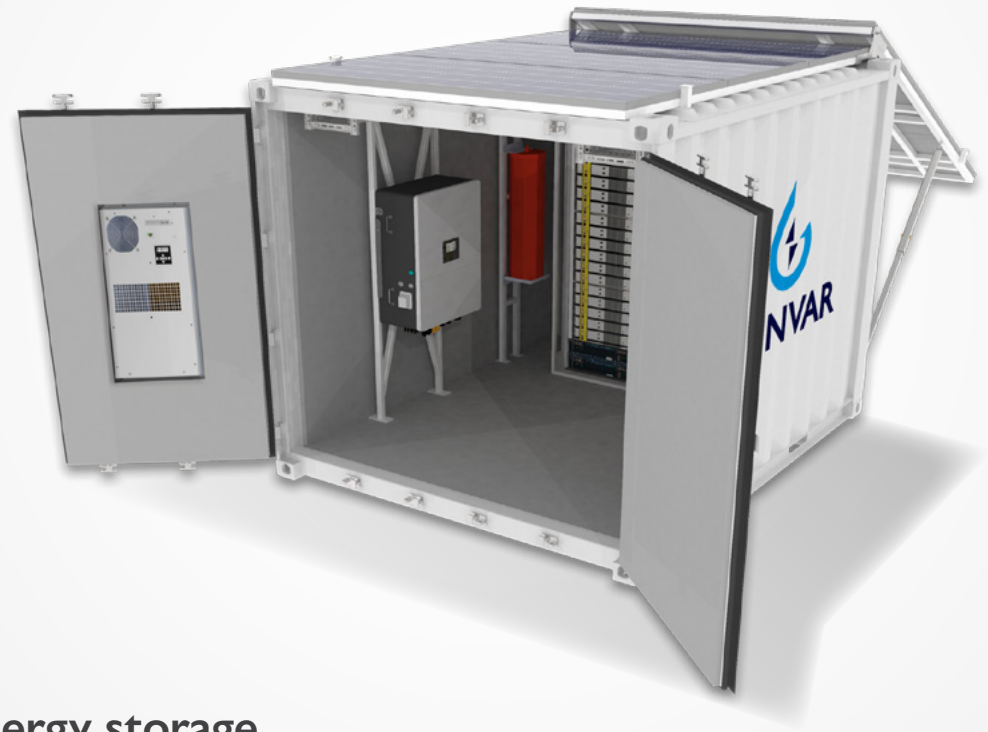


Choose your balance

With GENVAR-BLUE, you're in control. Our hybrid generator system is fully customisable, allowing you to choose the ideal fuel-to-battery ratio to match your site's specific demands.

Whether you need a 50/50 split for maximum efficiency, or a different configuration for your site, GENVAR-BLUE adapts to your operational priorities.

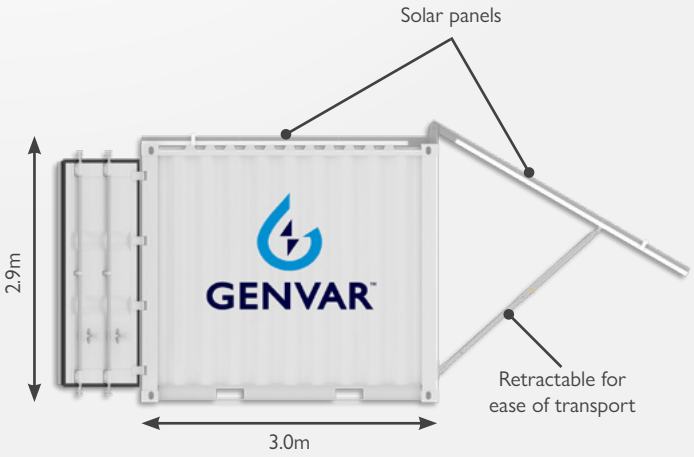
GENVAR-BLUE™



Secure energy storage

Built for the harsh Australian outback, this containerised unit is designed to provide secure storage for the batteries and inverter box. Its resistance to high temperatures and corrosion, makes it ideal for mine sites and other demanding environments.

- 10ft High CUBE Iso Container
- 50mm Fire Retardant Panel with Aluminium Sheet
- LED overhead lighting with light switch
- Smoke alarm, temperature & humidity, door switch, E Stop
- Standard 10ft ISO Container Door access
- Flush Mount 5000W 240V AC Mounted in left door



GENVAR-BLUE selection

Each package can be customised to meet your site's power requirements. Below are the available options:

Model	Rating (kVa)	Pump Motor Power (kW)	Drive Rating (kW/A)	Inverter Rating (kW/A)	Battery Module (kW/A)*
GVR-Bx60 / GVR-Bx100	60 - 100	≤ 55	55 / 115	100 / 136	140
GVR-Bx150	150	63 - 75	90 / 170	160 / 220	212
GVR-Bx200 / GVR-Bx300	200 - 300	92 - 147	160 / 330	240 / 330	318

*Battery Module can be customised to meet customer requirements

Smart battery technology

The GENVAR-BLUE uses low voltage battery technology specifically developed for mining energy applications and is based on a modular architecture with strict safety principles.

Designed with five layers of safety, from mechanics of the rack to the battery cells, the Battery Management System (BMS) monitors and controls each battery module in real time to ensure they function safely, reliably, and efficiently.

The system also includes intelligent features that allow you to analyse the complete battery rack and receive information about its state of charge, state of health, and a multitude of other important elements down to the cell level.



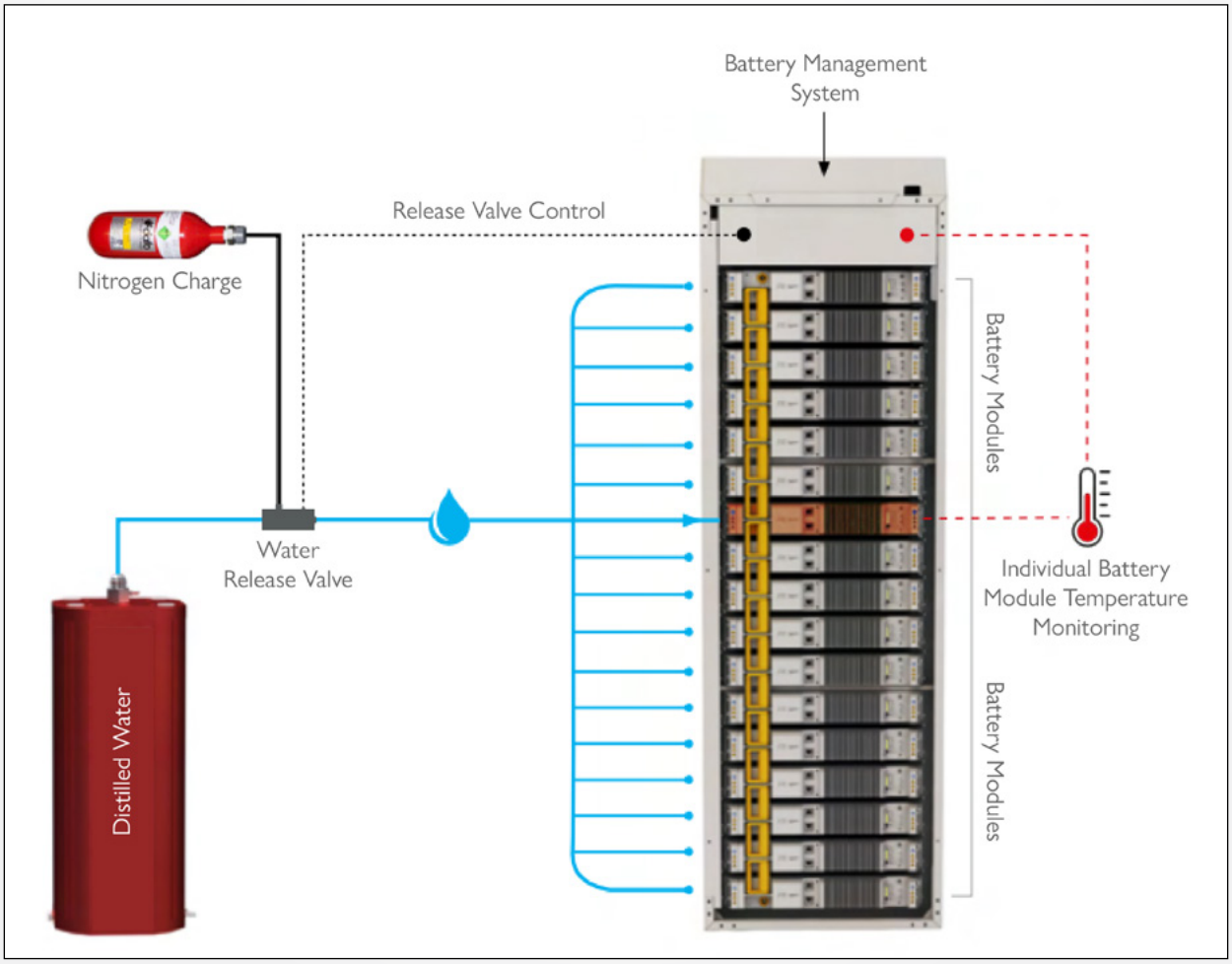




Three phase hybrid inverter

Operating at 98% efficiency our hybrid transformer-less power inverters offer a range of features including:

- 100% unbalanced output, each phase
- AC couple to retrofit existing solar system
- Max 10 pcs parallel for on-grid and off-grid operation: support multiple batteries parallel
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator
- Available from 30kW - 80kW



Safety first

Our systems are the safest on the market with extensive internal safety and monitoring systems built in. From thermal runaway and fire suppression, to smoke, temperature and humidity alarms, built in door alarms, optional fireproof lining to 1100C for 2 hours and external emergency E-stops.

Thermal runaway protection

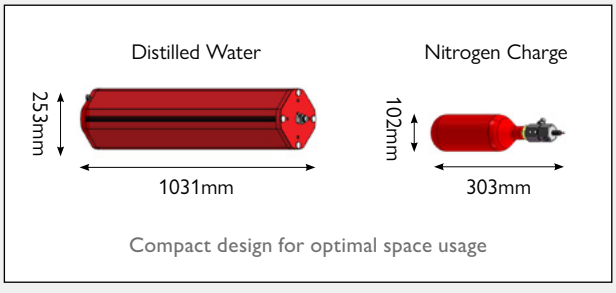
Fitted with a propagation protection system (PPS), the intelligent BMS monitors each battery module in real time for early signs of thermal runaway and will inject a fire inhibiting solution into any module that triggers the detection system.

Within 4 seconds of detection, the fire suppression fluid is injected into the module at greater than 10 litres per minute and extinguishes thermal runaway, immediately removing the risk of fire.

Electrical fire protection

Fitted with Stat-X fire suppression technology, the Stat-X condensed aerosol offers numerous advantages over legacy-type fire suppression systems.

It has a 15-year service life and provides a total flooding application with airborne suspension of the Stat-X agent, remaining for up to 20 minutes to aid in the protection against reflash and it eliminates the need for gas-tight enclosure requirements.



Compact design for optimal space usage

GENVAR-BLUE™



All-in-one solution

The trailer-mounted GENVAR-BLUE provides the same dependable power generation with the benefit of easy portability. The headworks are incorporated to enable easy plug-and-play of fuel and pumping connections.

We packed in a lot

- Compact - 1180mm wide for generators up to 300kVa
- Full-length doors for superior maintenance accessibility
- AS1657 stairs and walkways for safe access
- Designed to operate in dusty environments with high ambient temperatures.
- Pipework sizes from DN50–DN300

PLC control panel

- Dual Skin Control Panel – reduces heat loading on sensitive electronic components
- Client-accessible programs: no 'locked-out black boxes'
- Client Specified PLC hardware (eg. Schneider M340, Allen Bradley)

FEATURES

- Pipework construction HDPE, galvanised steel, stainless steel, duplex
- 4.5m 'mast' with flashing alarm and running beacon
- Plug & play electrical and fuel connections
- Blast cage
- Jump-start receptacles
- Additional E-stops
- Mine-spec signage
- Work lights
- Fire extinguisher
- Silent model
- Client-preferred switchgear



OPTIONS

InteliVision12 touch screen
Plug-and-play intermediate panel for standard generator
Extended-capacity fuel tanks
Removable/fold-down handrail to access generator

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