

Allied Pumps

Generator Capabilities

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From design to commissioning, we deliver packaged power built to match your load, on the toughest and most remote sites.

OUR POWER GENERATION EXPERIENCE

GENVAR generator sets are designed specifically for the harsh Australian mining environment. Drawing on more than 30 years supplying pumping and power generation equipment to the industry, we have created a range of mine spec generator packages that meet or exceed underground water pumping requirements. Every unit is engineered, built and tested in house, so the package arrives on site ready to run.



MANUFACTURING AND TESTING

- ISO 9001:2015 quality certified
- ISO 45001:2018 health and safety certified
- ISO 14001:2015 environmental certified
- Over 15,000 square metres of manufacturing and testing facilities
- Certified AS2417 test rig
- 690V rated 1MW load test facility



CONTROL AND COMPATIBILITY

GENVAR gensets are compatible with many industry standard control systems, and you choose the controller. Advanced HMIs give you complete control of the package and interface with existing site SCADA, plus remote monitoring available on demand. Supported hardware includes:

- InteliVision HMI
- Harmony GTO HMI
- Allen Bradley PanelView
- Schneider PLC hardware
- Allen Bradley PLC hardware
- Site SCADA interfacing
- Remote monitoring on demand

Engineered for the harsh realities of Australian mining, the GENVAR generator range delivers packaged power built to match site load and cut lifetime fuel costs.



GENVAR-VSD

A variable speed drive matches motor speed to operational demand, lifting system efficiency and reducing fuel use.

Available from 60 to 600 kVA, skid or trailer mounted.



GENVAR-EXTREME

Containerised units built for the harshest installation conditions, rated to operate at 60°C with two-stage air filtration.

Available from 600+ kVA and packaged in 20ft or 40ft containers.



GENVAR-VSG

The generator varies its own engine speed to track site load, producing only the power actually required.

Available from 60 to 600 kVA, trailer mounted with integrated headworks.



GENVAR-BLUE

Hybrid power pairing a GENVAR genset with a large-capacity BESS, balancing generation against demand in real time.

Available from 60 to 300 kVA, fully configurable.



GENVAR-VSD

A variable speed drive matches motor speed to operational demand, improving system efficiency and reducing fuel consumption. Designed to operate in dusty environments with high ambient temperatures.

GENERATOR SELECTION GUIDE

Generator kVA

Pump kW	60	80	100	150	200	250	300	350	400
18.5	■								
22	■	■							
26	■	■							
30	■	■							
37	■	■	■						
45		■	■	■					
55			■	■					
63			■	■	■				
75				■	■	■			
92				■	■	■	■		
110					■	■	■		
132					■	■	■	■	
147						■	■	■	■
170							■	■	■
180							■	■	■
220									■

* Shaded cells show compatible pump and generator pairings.
* GVM is the trailer gross vehicle mass.
* Duties outside this range are available on request.

KEY FEATURES

- Weather-Proof, Acoustic-Rated Canopy
- Double Sealed IP66 Lockable Enclosure
- Bulk Fuel Transfer-Pump Control
- Fuel-Changeover Switch and Extended Tanks
- Large-Access Door and Bi-Fold Doors

PRODUCT OPTIONS

- Variable Speed, 60 to 600 kVA at 30 to 50 Hz
- Skid-Mounted or Trailer-Mounted
- SCADA Integration via Telemetry Radio
- InteliVision5 and InteliVision12 Touch Screen HMI



GENVAR-EXTREME

Containerised units engineered for the harshest installation conditions. Multiple vents and independent air filters allow operation at external temperatures up to 60°C, suiting high humidity and extremely dusty environments. Available in standard 20ft and 40ft containers.

BUILT FOR CONTINUOUS DUTY

Robust engines and alternators are specified to operate 24/7, housed in standard 20ft and 40ft containers for straightforward transport and relocation between sites. Removable panels give direct access to the alternator for service, and the control panel is fitted with double seals.

A large integrated fuel tank with quick connection points allows automatic changeover from bulk supply, extending run time between refills. Dusty environment filters operate independently of the engine's own filters, louvred baffles stop sand and foreign objects entering the system, and maximum soundproofing suits installation in noise-sensitive areas.

KEY FEATURES

- Supersized Radiator for Maximum Performance
- Two-Stage Independent Air-Filtration System
- Louvred Air Intake Baffles and External Intake
- Lined for Thermal and Sound Insulation
- Noise Attenuation to 50 dB at 3m

PRODUCT OPTIONS

- Available from 600+ kVA
- Automatic Fuel Changeover System
- Removable Panels for Alternator Access
- 20ft or 40ft Container



GENVAR-VSG

The generator varies its engine speed to track site load, producing only the power required. Often trailer mounted with integrated headworks, the plug-and-play setup makes it a complete off-grid dewatering solution.

FLEXIBLE DEPLOYMENT

Running only as fast as the load requires cuts fuel consumption and emissions, plus avoiding constant high RPM reduces mechanical stress across the service life of the engine. Under partial load the VSG is more efficient than both fixed speed generators and variable speed drives.

Every unit is built for dusty environments with high ambient temperatures, and fitted out to mine spec with a 4.5m mast carrying a flashing alarm or running beacon, site signage, work lights and a fire extinguisher. Control hardware is specified to suit your site, with Schneider or Allen Bradley PLCs available.

KEY FEATURES

- Dual Skin Control Panel Reduces Heat Loading
- Client-Accessible Programs
- Pipework in HDPE, Galvanised or Duplex
- Pipework Sizes From 50 to 300 mm NB
- AS 1657 Stairs, Walkways and Blast Cage

PRODUCT OPTIONS

- Variable Speed, 60 to 600 kVA at 30 to 50 Hz
- Powered GPS Module
- Extended-Capacity Fuel Tanks
- Removable Fold-Down Handrail

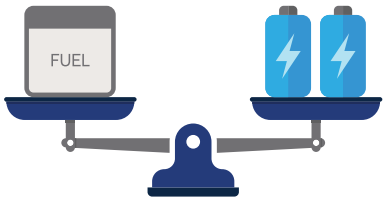


GENVAR-BLUE

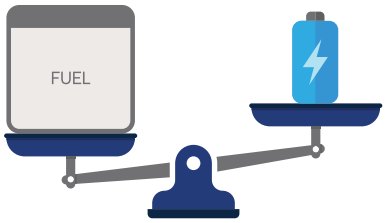
Hybrid power by pairing a GENVAR genset with a large-capacity BESS. Intelligent balancing of output against demand removes the need for dummy loads, cutting fuel use and maintenance on hydrocarbon equipment. Available from 60 to 300 kVA.

CHOOSE YOUR BALANCE

GENVAR-BLUE is fully customisable, so you set the fuel-to-battery ratio that suits your site. Whether you need a 50/50 split for maximum efficiency or a different configuration, the GENVAR-BLUE adapts.



Battery weighted, for variable and low-demand loads



Fuel weighted, for sustained high loads

KEY FEATURES

- Battery Energy Storage System (BESS)
- Battery Management System, Real-Time Control
- Three-Phase Hybrid Inverter
- Stat-X Fire Suppression Technology
- Eliminates Dummy Loads and Wet Stacking

PRODUCT OPTIONS

- Available From 60 to 300 kVA
- Flexible Fuel-To-Battery Ratio
- Configured to Site Load Profile
- Reduced Hydrocarbon Maintenance

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