

Black-Start Technology



Energetix Pnu Power Gen-Start System

Pnu Power's black-start system provides ultra high levels of reliability and exceptional performance from a compressed air technology.

Gen-start from Pnu Power is a high performance genset starting system that delivers the capability to start gensets and large compressors. The system has been developed using Pnu Power's innovative scroll technology providing an average cranking power of 10kW(peaking at 24kW for 1-3 seconds) for up to 10 seconds - which will ramp slowly to start a generator set of up to several MW.

Energy is stored in the form of Compressed air - this along with standard industry proven component means that the system is always ready to deliver the power necessary to start up generating equipment at the time when this is needed most - so protecting the good and services in operation at the time.

The known level of stored energy - which can be monitored locally or remotely - along with a very long shelf life, provides ultra high levels of operational confidence.



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Creating the future of energy technology

Top level Gen-Start Unit

Product Characteristic	Genstart
Configuration	A two terminal d.c fully integrated Pnu Power, Genstart Unit with quick-swap bottle change facility.
Output	24Vd.c, 1000Ad.c maximum cranking current.
Input Requirements	Recharge oil lubricator every 100 starts - 600ml reservoir. Change cylinder every 20 full power starts for 300 bar system (based upon 10 second start cycle).
Standard features	True Black-Start capability. Fully Silenced system - 85dBA. Automatic full system self-test. RS-232 communication interface.
Optional Extras	Automatic recharge system. Local software monitoring system. Extended oil reservoir. Extended air reservoir.
Environment	Operating temperature range: -40C to +50C. Humidity: 95% without non condensing IP56 rated as standard.
Dimensions	Height: 2200mm. Width: 900mm. Depth: 900mm. Weight: 275kg (including cylinder).
Certification	CE pending. UL pending.

Performance Benefits

- High reliability
- Performs in harsh operational environments
- Versatile system that is transportable and requires no mains supply
- Low maintenance
- Run time/time remaining accuracy
- No power degradation throughout lifetime
- Easily installed

Guaranteed Flexibility

- Provides true black-start capability
- Independent power generation (no batteries required)
- Wide range of operating temperatures

Environmentally Friendly

- Lead acid free energy storage solution
- No hazardous disposal issues
- Low recycling costs



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