



7 Critical Functions to Demand from Your Hydraulic Generator

Our proprietary Total Electronic Control System** takes ALL the “guess work” out of operation and extends in-service life.

Exclusive Command and Control Center offers real benefits:

Cold Start Protection: Cold hydraulic fluid circulating through the system can dramatically reduce the life of the motor. Our proprietary electronic controls automatically monitor the temperature and bypass the fluid around the motor until a safe operating temperature is reached. In addition to extending motor life, this also insures that there will be no electrical spikes, which cause the system to blow out bulbs, or damage other equipment in the vehicle.

Over Heat Protection: The electronic controls constantly monitor system temperature and will warn you if the generator begins to run hot. This provides the opportunity to check for blocked cooler or closed compartment door. Should the system temperature continue to rise, the system will automatically shut down before damage could occur, unless you choose to override this process.

Soft Start Feature: When the system is first engaged, the electronic controls send all the fluids through a by-pass loop. Fluid flow to the motor is then slowly increased until the system is producing full power. This minimizes the “initial shock” of system engagement, which would otherwise be transferred from the generator, to other truck components.

Fine Tuned Frequency: For optimal performance of all accessories utilizing the system, the electronic controls constantly monitor the frequency generated. The system will automatically make “fine” adjustments as needed. This feature adds to the life of all components powered by the generator.

Self Diagnostics: There is no longer any reason to try and guess what might be wrong should the system go down. The electronic controls will indicate, via a number code, the exact issue. This number code can quickly be interpreted by our Customer Service Department’s highly skilled engineers.

Service Reminders: An obvious key to extended service life is regular maintenance. Again, the electronic controls will indicate when service is required. After the service has been completed, the system automatically purges any entrapped air and you will quickly be back in service.

Fluid Level Monitoring: Should the system ever run low on fluid, the electronic system will display a warning that additional fluid is needed. Top off the fluid and the warning goes away!

Smart Power® Systems

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Competitive Analysis

Hydraulic Gen-set Systems

Performance Capability & Features	Smart Power®	Brand O	Brand H	Brand A
Lower installation cost				
Pre-wired harness for easy installation	yes	yes	yes	yes
Quickly accessed hydraulic fittings (3)	yes	no	yes	no
No external hydraulic reservoir; fully enclosed 1 pc. system	yes	no	no	no
1 size package (6, 8 & 10kW) uses <u>less</u> space	yes	no	no	no
Auto purge feature removes entrapped air (from hydraulic system) preventing damage during installation	yes	no	no	no
Higher reliability				
Command and Control Center** provides automatic and operator interactive control	yes	no	no	no
Automatic over-temperature shut down with manual over-ride capability	yes	no	no	no
Sealed solid state display (critical system operating conditions)	yes	no	no	no
System cold start and control* (electronics) to ensure (a) rapid start plus (b) soft-start (enhanced protection)	yes	no	no	no
User accessed diagnostics through display with recording of dozens of fault events	yes	no	no	no
Electronics include built in maintenance schedule tracking and reminders visible at Command and Control Center	yes	no	no	no
Solid state system controller (engineered and manufactured in-house) for long term reliability and durability	yes	no	no	no
Higher performance				
High accuracy voltage and frequency regulation (through proprietary fluid pressure/volume control*)	yes	no	no	no
User interaction and remote control from Command & Control Center (multiple location capable)	yes	no	no	no
Smaller unitary compact package	yes	no	no	no
User programmable auto start-up (when PTO is engaged)	yes	no	no	no
120° F ambient inlet temperature operation, NFPA	yes	yes	yes	yes
Electronic hydraulic fluid level monitoring system	yes	no	no	no
Electronic temperature monitoring system	yes	yes	yes	yes
Stainless steel enclosure	yes	yes	no	yes
Same footprint for 6, 8, and 10kW models	yes	no	yes	no
Fan – electronically controlled, temperature sensing	yes	no	yes	no
Generator stops spinning with system “turn-off” (PTO engaged)	yes	yes	yes	no

** Smart Touch® system
* patents pending

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