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PowerWizard 1.0

PowerWizard 1.0 — Control Panel

The PowerWizard 1.0 control panel is a cost effective way of monitoring and communicating with your generator set. It includes manual and automatic start / stop and an engine cool down timer. The 32-bit microprocessor-based system eliminates individual meters, gauges and switches, reduces wiring and results in a highly durable and robust system.

The PowerWizard 1.0 panel combines generator set control and monitoring in one module for easy access to controls, metering, protection device settings and diagnostic information.

FEATURES

- Programmable protective relaying, available as alarm and shutdown, protects against underspeed, overspeed, low battery voltage, high battery voltage
- Digital, 32-bit microprocessor-based system eliminates the need for multiple switches, meters, transducers, relays, and sending units, which translates to less wiring and fewer opportunities for mechanical failures
- Simultaneous viewing of all AC L-L voltages, all AC L-N voltages, or all AC line currents
- User-friendly, convenient, customer programmability directs the customer to logical parameter groups (Ex. AC metering, protective relaying, engine monitoring) for quick keypad access
- Set points & software are stored in nonvolatile memory, preventing loss during a power outage
- True RMS sensing ensures AC metering accuracy of 2% for AC voltage, current
- Five levels of security allow operators to have different access privileges
- Two display languages, (Customer language and Technician English*) to aid service and commissioning

*See languages available overleaf.

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STANDARD/OPTIONAL FEATURES

Standard	
Panel Construction and finish	Components installed in a heavy duty sheet steel enclosure Phosphate chemical pre-coating of steel provides corrosion resistant surface Polyester composite powder topcoat forms high gloss and extremely durable finish Lockable-hinged panel door provides for easy component access
Mounting	Mounted to generating set baseframe on robust steel stand Vibration isolated from generating set
Instrumentation	LCD Display with adjustable contrast and backlight with auto power off AC metering: Volts 3-phase (L-L & L-N); Amps (per phase & average); Frequency DC metering: Battery Volts; Engine Hours Run; Engine Jacket Water Temperature (in °C or °F) Lube Oil Pressure (in psi, kPa or bar); Engine Speed (RPM)
Protection	Fail to start shutdown Low oil pressure shutdown High engine temperature Low / High battery voltage Battery charger failure (if fitted) Underspeed / Overspeed Loss of Engine Speed Detection 2 spare fault channels 20 Event fault log (name of event, engine hours at first occurrence of event, engine hours at latest occurrence of event, number of occurrences of event)
Controls	2 LED status indicators (1 red shutdown, 1 amber warning) Run key and LED indicator Auto key and LED indicator Stop key and LED indicator Lamp test key Alarm acknowledge key Menu navigation keys Engine and AC metering shortcut keys Control module keys have tactile feedback Lock down emergency stop push button CAN 1 data link - J1939 for communicating with electronic engine control modules
Languages	Arabic, Chinese, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Icelandic, Italian, Japanese, Latvian, Lithuanian, Norwegian, Portuguese, Russian, Slovak, Slovene, Spanish, Swedish and Turkish

OPTIONAL FEATURES	
Battery trickle charge ammeter	
Audible Alarm	
Battery chargers:	120VAC, 240V AC, 240V AC + Boost
Engine Coolant heater controls	
Volt free contacts for:	(1) Common Alarm, (2) Genset running
Lockdown emergency stop button with security key	
Volts adjust potentiometer	
Speed adjust potentiometer	
Spare shutdown/alarm channel can include:	Earth leakage protection, Low fuel level, Low coolant level, High lube oil temperature, Low coolant temperature, High fuel level, Low coolant temperature, High fuel level, Overload via alarm switch, Earth fault protection, overvoltage, Low gas pressure and High gas pressure

Note: All options are not available on all genset models.