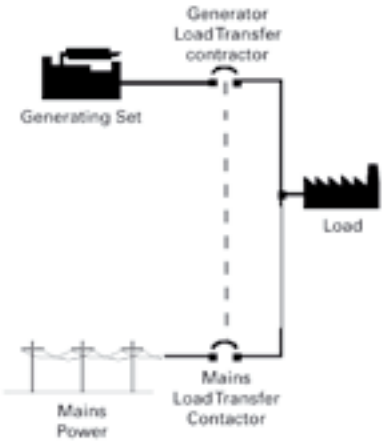
Automatic Mains Failure (AMF). When the 6000 Series panel is configured as a 6100 control system, the controller waits to receive a remote start signal on failure of the mains supply. The mains failure sensing is performed external to the 6100 control system.

When operating in Automatic Mains Failure mode the controller waits for a remote start signal to indicate that the mains have failed. On failure of that supply the mains load transfer contactor opens, and after an adjustable time delay the generating set is started. When the generating set is ready for the load the generator load transfer contactor closes. After mains power returns, and remains healthy for a preset time, the generator start signal is removed, the generator contactor opens and the mains contactor closes. The generating set stops after a cooling off period.

Note:

In this configuration the mains load transfer contactor and the generator load transfer contactor should be electrically and mechanically interlocked to prevent simultaneous engagement.

The optional facility of the industry standard Modbus protocol communication interface ensures compatibility with most building management or SCADA/HMI systems.



6100 Series

Control panel

Standard features

Generating set parameter displays (2 X 4 line LCD display)

AC voltage phase to phase and phase to neutral (on 3 phases)
AC current (on each of 3 phases)
Frequency
CosΦ (power factor) average
kW - total + per phase
kVAr - total + per phase
kWh - total
% Voltage difference between bus and generator
Hours run
Coolant temperature
Lube oil pressure
DC Voltage

Bus parameter displays

AC voltage/frequency within limits indicator

Operator controls

Off/auto/test/run control switch
Emergency stop pushbutton (lockdown)
Membrane keypad with tactile feedback

System controls

3 Attempt start counter
Cool down delay
Pre-glow delay
Remote start capability
Reverse power relay
Static battery charger 5A 220/240 Volt

Shutdowns and alarms

High coolant temperature shutdown
Low oil pressure shutdown
Overspeed shutdown
Fail to start shutdown
Emergency stop operated
Reverse power shutdown
Overvoltage shutdown
Undervoltage shutdown or alarm
Overfrequency shutdown
Underfrequency shutdown or alarm
Battery undervoltage alarm
Battery overvoltage alarm
Alternator loss of excitation alarm
Spare fault channels, up to 3:
– Low coolant temperature alarm
– Earth fault
– Earth leakage
– Low fuel level shutdown or alarm
– Low coolant level shutdown

Status indicators

Fault log memory
Password security
Interface to remote monitoring package

Optional features

System controls

Volt free contacts for generating set running
Volt free contacts for common alarm

Shutdowns and alarms

Earth fault shutdown
Earth leakage shutdown
High fuel level alarm

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