

InteliGen®

Modular Gen-set Controller



General Features

- Support of engines equipped with Electronic Control Unit (J1939 interface)
- AMF function
- Display 128x64 pixels
- Generator measurement: U, I, Hz, kW, kVA, kVAh, PF, kWh, kVAh
- Mains measurement: U, I, Hz, kW, kVA, PF (1 phase current only)
- Inputs and outputs configurable for various customer needs
- RS232 interface with ModBus protocol support; Analog/GSM/ISDN modem communication support; SMS sending on gen-set failure
- Event based history file (~ 120 records), RTC, statistics
- Dimensions 180x120 mm (front panel)
- Sealed to IP65

Upgrade kits

Power Control (IG-PCM):

For single gen-set in parallel with mains

- Automatic synchronising and power control
- Peak shaving
- Interrupt free reverse synchronising
- Voltage and PF control (AVR)
- Baseload, Import/Export

Load Sharing (IG-PCLSM):

For multiple isolated parallel operation

- Automatic synchronising and power control
- Voltage and PF control (AVR)
- Active Load Sharing

Load Sharing & Power Management (IG-PCLSM + IG-COM):

For multiple isolated parallel operation or multiple engines parallel with mains

- Automatic synchronising and power control
- Voltage and PF control (AVR)
- Active Load Sharing
- VAr Sharing (via CAN bus)
- Optimizing number of running engines: Power Management (via CAN bus); kW or % load based
- Monitoring and control of multiple gen-sets via MultiEdit

Description

InteliGen® is a comprehensive AMF controller for single and multiple generating sets operating in standby or parallel modes. A modular construction allows upgrades to different levels of complexity in order to provide best solutions for various customer applications.

Optional built-in synchroniser and isochronous load sharer allow total integrated solution for gen-sets in standby and parallel modes with multiple (up to 32) engine support.

InteliGen® controller is equipped with a powerful graphic display. Icons, symbols and bar graphs for intuitive operation together with high functionality set new standards in gen-set control.

Special low temperature (IG-CU-LT 12 VDC or IG-CU-LT 24 VDC) version is also available, allowing the display to work up to -30°C.

ComAp is open to various customized software solutions.

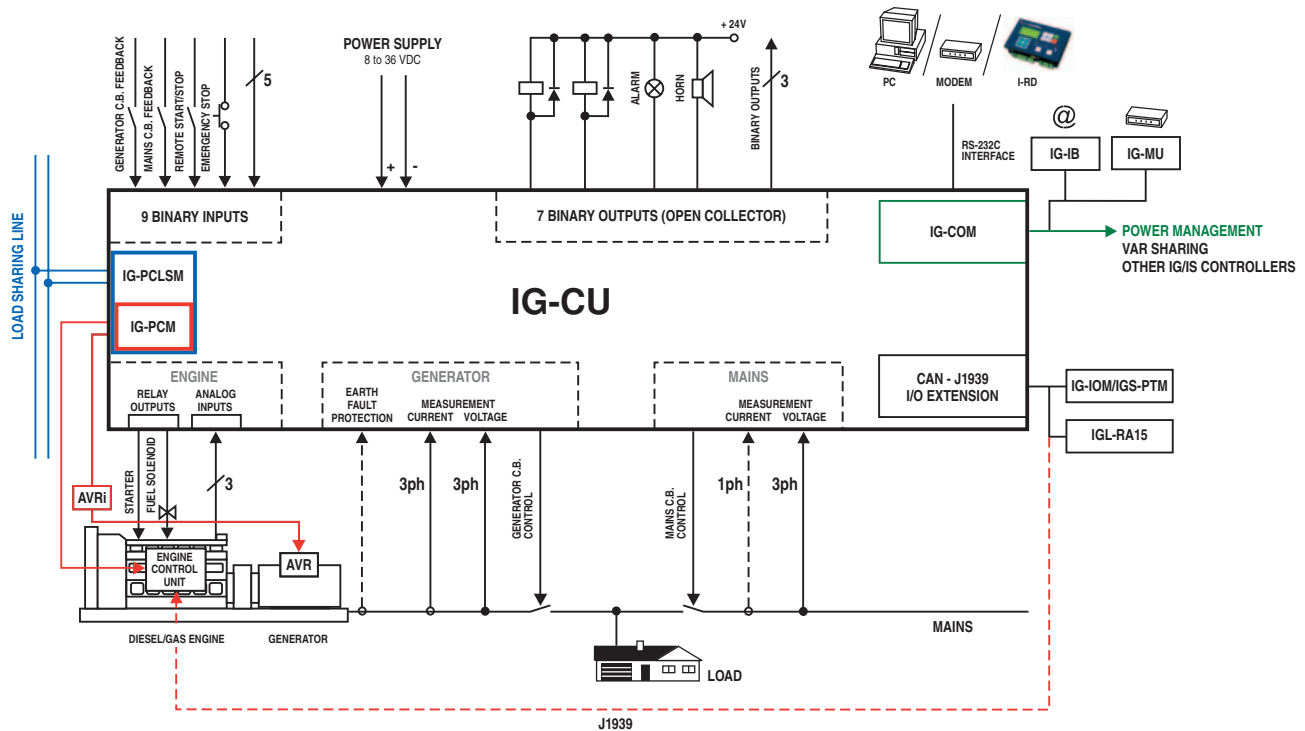
Benefits

- Support of engines with J1939 interface
- Complete integrated gen-set solution - less wiring and components
- Many types of communication - easy supervision and servicing
- Upgradable to fit exactly any customer needs
- Perfect price/performance ratio



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Integrated protections

- 3 phase integrated generator protections (U + f)
- IDMT overcurrent + Shortcurrent protection
- Overload protection
- Reverse power protection
- Load surge protection
- Earth fault protection
- 3 phase integrated mains protections (U + f)
- All binary/analogue inputs free configurable for various protection types: Warning / Slow stop / Unload / Shutdown
- Phase sequence supervision

Extension features

- **IG-IOM** (4 analogue inputs, range 0-2400 Ω ; 8 binary inputs; 8 binary outputs; 1 analogue output)
- **IGS-PTM** (4 analogue inputs, ranges 0-250 Ω / 0-20 mA / 0-100 mV; 8 binary inputs; 8 binary outputs; 1 analogue output)
- **IGL-RA15** (15 green / amber / red LED indicators)

Communication extension features

- **IG-IB** (Ethernet/Internet communication support; multiple gen-set control via Internet; active e-mails on gen-set failure; Internet dial-up / callback function)
- **IG-MU** (direct or modem control of multiple gen-sets; RS422 / RS485 / ModBus support for direct connection; Analog / GSM / ISDN modem support; modem callback function)
- **WinEdit** - free PC software for configuration and supervision of one IG/IS controller (gen-set); direct / modem / Internet connection
- **MultiEdit** - free PC SCADA software for supervision of a group of IG/IS controllers (gen-sets); easy site overview, including MCB state and load consumption
- **IGS-LOG** - PC software for long-term data logging from site with multiple gen-sets; allows displaying of a common history from all gen-sets on site for easy problem finding
- **Supervisor** - automatic data acquisition PC software; periodically downloads data from multiple sites via modem
- **I-RD** - Remote display, connected to RS232 interface; up to 1,2 km away from the main controller, offers the exact copy of controller's front panel



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