

# InteliProtec

## Mains Protection Module (G59/G10 relay)



## Description

InteliProtec is ComAp's new modular panel-mounted protection for generators operating in parallel to mains applications.

It incorporates a wide range of protection features, which include: voltage, frequency, vector shift, rate of change of frequency (ROCOF), directional overcurrent, overcurrent, earth fault current, NVD and reverse power.

The advantage of InteliProtec is its flexibility - the user is able to request the specific protection requirement to suit the particular application, amend setpoints from facia and view history of events on the graphic LCD screen.

Dedicated outputs on the I/O extension module provide signals of the actual fault; this can be used for indication or control use.

## Features

- Available protections:
  - Over/under voltage
  - Voltage asymmetry
  - Over/under frequency
  - Vector shift
  - ROCOF
  - Directional overcurrent
  - Overcurrent
  - Earth fault current
  - Neutral voltage displacement
  - Reverse power
- Mains measurement:
  - L1-2, L2-3, L3-1 ph-ph, frequency
  - L1, L2, L3, I1, I2, I3, IN
  - Power factor
  - Active/reactive power
  - Apparent power
- Push buttons for simple control
- Graphic back-lit display 128x64 pixels
- 6 LED indicators
- Setpoints adjustable via keyboard or PC
- RS232 interface/Modbus protocol
- Modem communication support
- Event based history
- With I/O extension module separate protection outputs available
- Dimensions 180x120 mm (front panel)
- Sealed to IP65

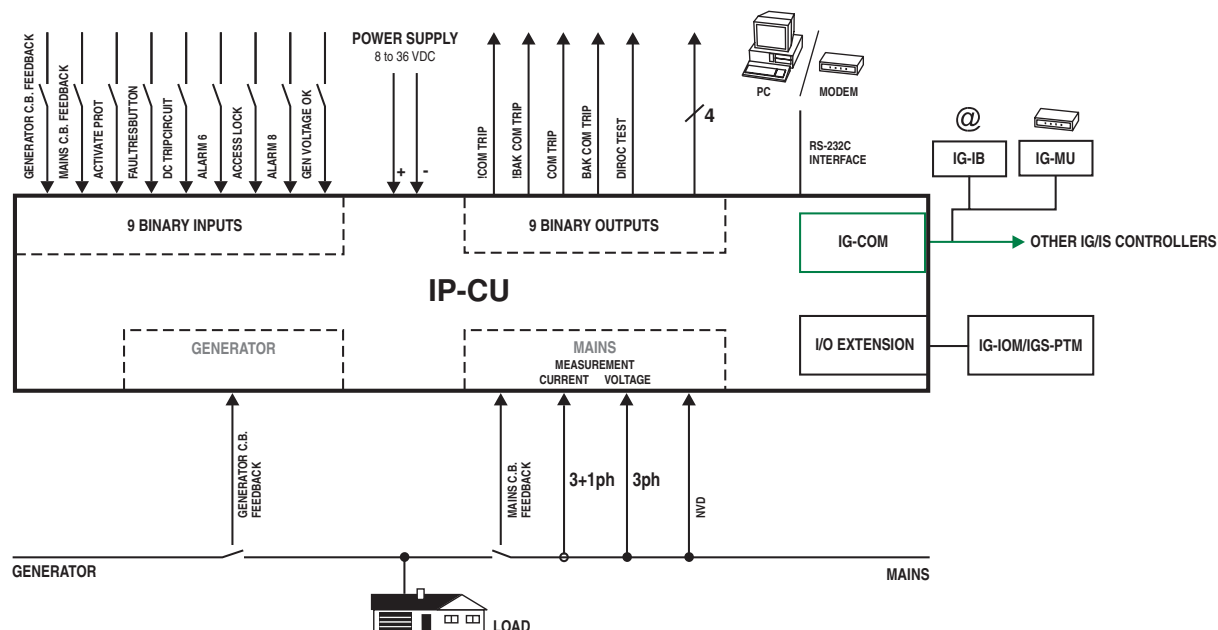
## Benefits

- Integrated protections solution - less wiring and components
- Designed with the aim of satisfying the G59, ETR113, G77, G83 and G10 guidelines
- Remote monitoring provided
- Tailor-made configuration
- Perfect price/performance ratio



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**Legend**  
 IG-IOM/IGS-PTM: I/O extension modules  
 IG-IB: Ethernet/Internet communication support  
 IG-MU: Modem communication support

## The List of Protections

ANSI code	Protection	Order codes				
		IP-A	IP-B	IP-C	IP-D	IP-E
59 + 27 + 47	Over/under voltage & asymmetry	•	•	•	•	•
81H + 81L	Over/under frequency	•	•	•	•	•
78	Vector shift	•	-	•	•	•
81R	Rate of change of frequency	-	•	•	•	-
67	Directional overcurrent	-	-	-	•	•
59N	Neutral voltage displacement	-	-	•	•	•
32 + 62	Reverse power with time delay	•	•	•	•	•
50 + 51	Overcurrent	-	-	-	-	•
50N + 51N	Earth fault current	•	•	•	•	•

Key: • included; - excluded



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