

# PC10

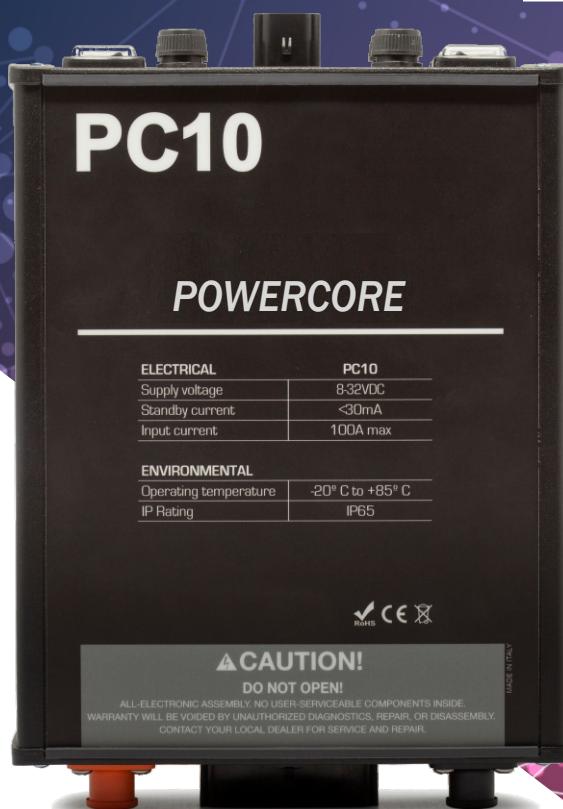


## OVERVIEW

The Power Management Enclosure (PC10) is the brain of the system.

It receives requests from switches or keypads and handles these commands based on the current state of the system. The output may be the activation/deactivation of a circuit or starting a timer function.

The POWERCORE then sends status data from system to keypads to turn ON/OFF the LED indicators and backlighting.



## POWERCORE MANAGEMENT ENCLOSURE

### ELECTRICAL FEATURES

- 12V or 24V nominal input voltage.
- 100 Ampere total PME input current carrying capability.
- 12 switched circuits that include:
  - Momentary, toggle, and time-out functions.
  - Pulse-width modulation of output voltage for dimming capability.
  - 3 circuits rated up to 20A maximum continuous load, 9 circuits rated up to 15A.
  - 2 complete H-Bridge circuits for driving reversible motors.
- Parallelable output increases current rating.
- An electronic circuit breaker protects every circuits. The current ratio for each circuit can be set independently.
- Remote reset of any output circuitry fault through keypad.
- Input undervoltage lock down.

### SPECIAL FEATURES

- CAN-bus compatible (CANopen/J1939 compliance available).
- Field programmability of electrical functions and current limit trip points available to authorised OEMs and Value-Added Resellers (VARs).
- 4-circuit bypass for essential functions.
- Optional N.O. relay contact.

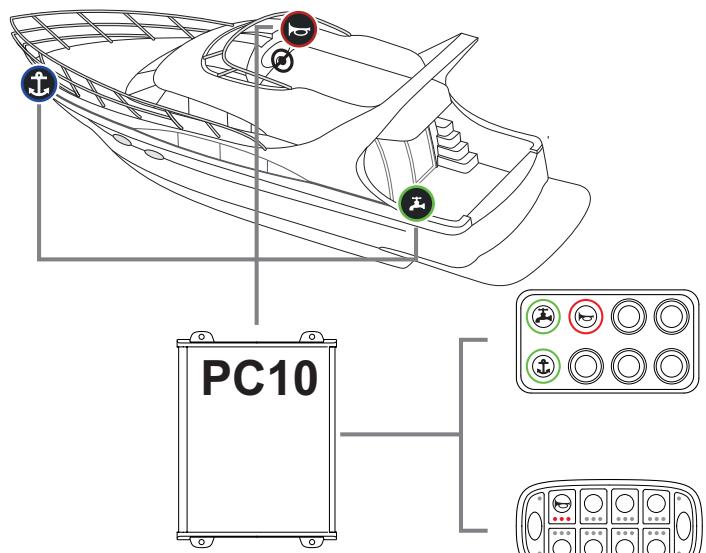
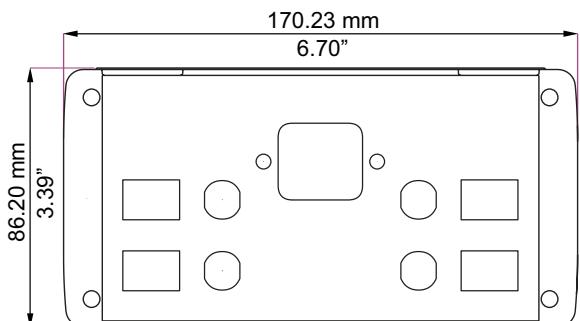
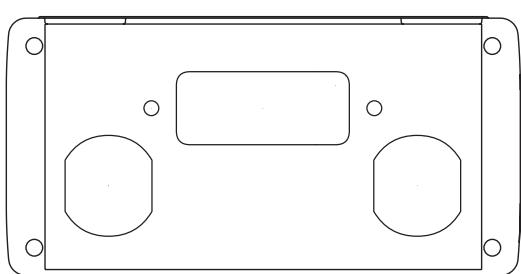
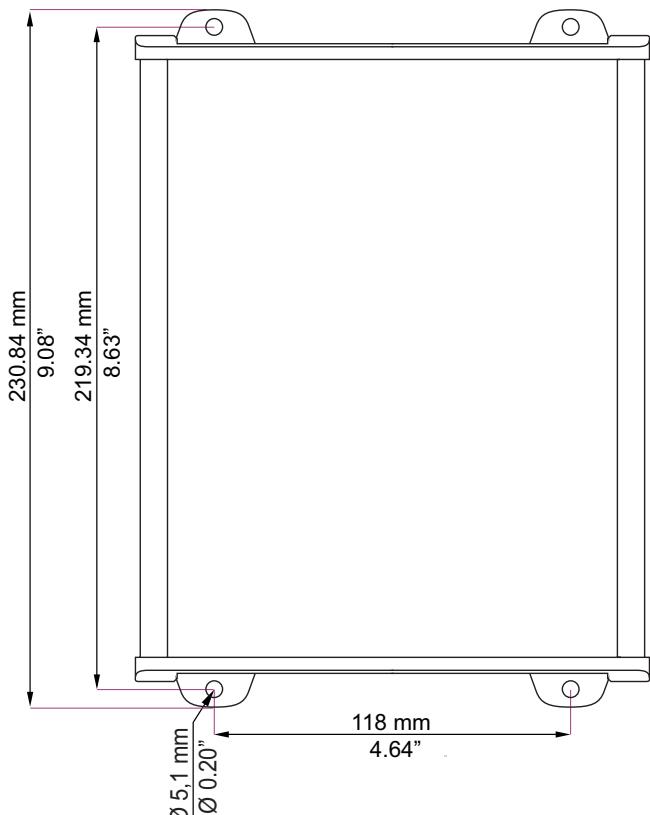
## INTELLIGENT POWER

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## SPECIFICATIONS

ELECTRICAL	PC10	FEATURES	PC10
Supply voltage	12V and 24V Nominal Voltage (8-32VDC)	Circuits	12
Standby current	<30mA per PME	Size mm connectors incl.	230 x 170 x 86
Load current	Max 20A	Remote current trip reset	Standard on all outputs
Input current	100A max	System reset	Optional
Communication bus	RS-485 between keypad and PME CAN Bus Slave	Status indicator	Standard
Circuit protection	electronic overcurrent protection & automotive mini blade fuse	By-pass	4 outputs
MECHANICAL		Low volt sense & lock down	Optional
Connector	Molex MX150L #19427-0049 & 19427-0032	Pull down	4 outputs
Mating connector	Molex MX150L #19418-0030 & 19418-0004	"H" Bridge capability	2 complete "H" bridges available
Housing	ALLOY 6060 and ZA4C1	Level sense input	8 inputs
Seal	TPV 8211-75	Dimming/PWM Features	Available on 10 outputs
Power stud	Amphenol surlock plus series	Circuit status monitoring	Optional
PC board	1.6mm thick, Nema Grade FR-4, Double clad with 3oz copper	Field re-programmable	Optional
ENVIRONMENTAL		External status communication on the bus	Optional
Operating temperature	-20°C to +85°C	N.O. relay contact	Optional
Storage temperature	-40°C to +85°C		
Humidity	0 to 98% (no condensation)		
Ingress Protection Rating	IP65		

## DIMENSIONS



 Googolplex Electric Co.