

# PC21B

## Solid State POWERCORE Management Enclosure



## 22 OUTPUTS, 15A EACH

**PC21B** is an all new power management enclosure designed and manufactured by Blink Marine. It can support up to 22 outputs, 15A with a splashproof enclosure. **PC21B** hardware is fully compatible with the previous generation of PC21 controllers (by DSS / DNA) installed on boats throughout the USA and distributed globally. This allows Blink Marine to design software 100% compatible with old DSS / DNA systems. The convenience of the Deutsch DRC10 40 pin connector allows the replacement of the old PC21 controllers without changing the wiring harness. **PC21B** is typically used along with one or more Blink Marine CANbus keypads and gateways in order to have a fully digital system on your boat.

### ELECTRICAL FEATURES

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

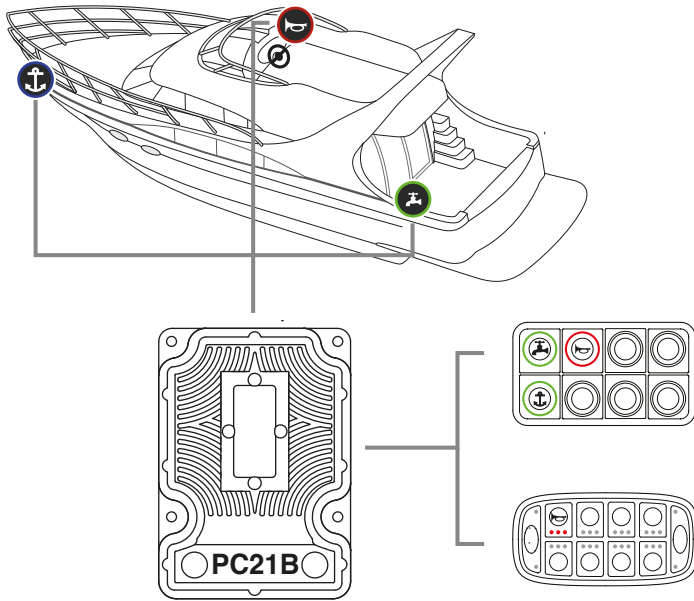
### SPECIAL FEATURES

- Field programmability of electrical functions and current limit trip points available to authorized OEM and Value-Added Resellers (VARs)
- 100% compatible with the previous generation PC21 controllers (by DSS / DNA).

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## SPECIFICATIONS FOR PC21B SOLID STATE POWERCORE MANAGEMENT ENCLOSURE

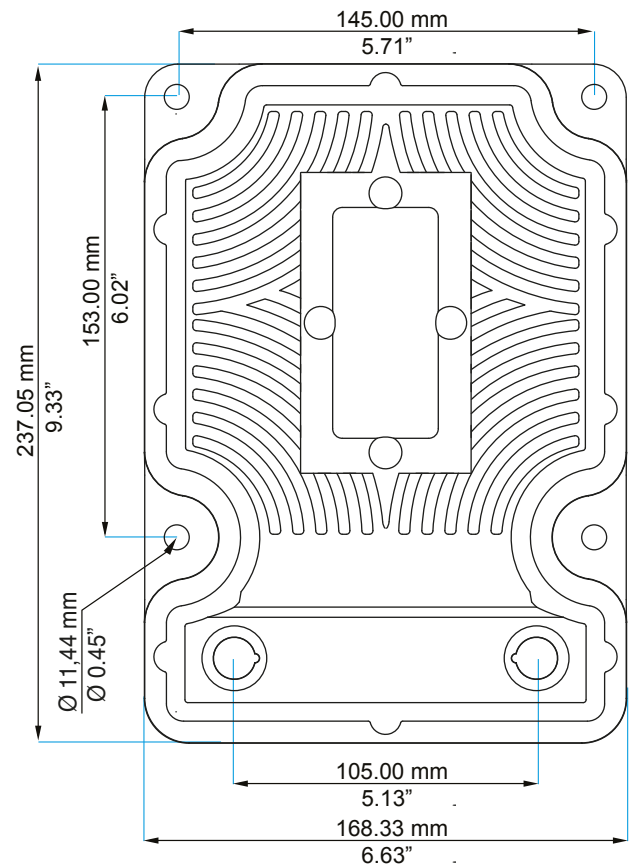
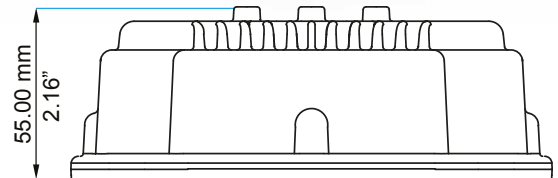


ELECTRICAL	PC21B
Supply voltage	12V and 24V Nominal Voltage (8-32VDC)
Standby current	<30mA per PME
Load current	Max 15A
Input current	150A max
Communication bus	RS-485 between keypad and PME CAN Bus Slave
Circuit protection	electronic overcurrent protection and automotive mini blade fuse

MECHANICAL	PC21B
Connector	Deutsch DRC 10-40P-A004
Mating connector	Deutsch DRC 16-40S
Housing	Aluminum AB46100 Anodic oxidation + powder-coating + zinc-coated bronze ZnCu20
Seal	EPDM GASKET
Power studs	Blink Marine CuZn20 UNC#14-20
PC board	1,6mm thick, Nema Grade FR-4, Double clad with 3oz copper

ENVIRONMENTAL	PC21B
Operating temperature	-20°C to +85°C
Storage temperature	-40°C to +85°C
Humidity	0 to 98% [no condensation]
Ingress Protection Rating	Splashproof

FEATURES	PC21B
Circuits	22
Size mm/inches	237x168x55 / 9.33x6.63x2.16
Remote current trip reset	Standard on all outputs
System reset	Optional
Status indicator	Standard
Low volt sense & lock down	Optional
Pull down	4 outputs
"H" Bridge capability	2 complete "H" bridges available
Level sense input	4 inputs
Dimming/PWM Features	Available on 3 outputs
Circuit status monitoring	Optional
Field re-programmable	Optional
External status communication on the bus	Optional
Weight	1174 gr



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