

PC21B



CANopen
J1939

OVERVIEW

PC21B is an all new Power Management Enclosure designed and manufactured in Italy. 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 us to design software to be 100% compatible with older DSS/DNA systems.

The convenience of the Deutsch DRC10 40pin connector allows the replacement of the old PC21 controllers without changing the wiring harness. PC21B is typically used along with one or more CANbus keypads and gateways in order to have a fully digital system on your boat.



POWERCORE MANAGEMENT ENCLOSURE

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.
 - 22 circuits rated up to 15A.
 - 2 complete H-Bridge circuits for driving reversible motors.
- Parallelable output to increase 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

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

INTELLIGENT POWER

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SPECIFICATIONS

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 & automotive mini blade fuse

MECHANICAL

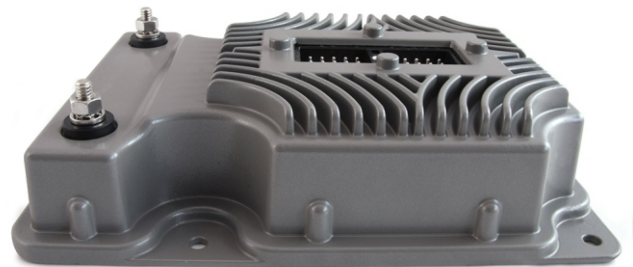
Connector	Deutsch DRC 10-40P-A004
Mating connector	Deutsch DRC 16-40SA
Housing	Aluminum Ab46100 Anodic oxidation + powder coating + zinc coated bronze ZnCu20
Seal	EPDM GASKET
Power stud	CuZn20 UNC#14-20
PC board	1.6mm thick, Nema Grade FR-4, Double clad with 3oz copper

ENVIRONMENTAL

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	237 x 168 x 55
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



DIMENSIONS

