



POWERCORE

ELECTRICAL	PC20
Supply voltage	8-32VDC
Standby current	<30mA
Input current	150A max

✓ CE X

J1939

ACAUTION!

OVERVIEW

The Power Management Enclosure (PC20) 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

ELECTRICAL FEATURES

- 12V or 24V nominal input voltage.
- 150 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.
 - 5 circuits rated up to 20A maximum continuous load, 17 circuits rated up to 15A.
 - 4 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.
- Up to 2 N.O. relay contacts (optional).

INTELLIGENT POWER

SPECIFICATIONS

ELECTRICAL	PC20
Supply voltage	12V and 24V Nominal Voltage (8-32VDC)
Standby current	<30mA per PME
Load current	Max 20A
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	Molex MX150L #19427-0032 & 19429-0040
Mating connector	Molex MX150L #19418-0030 & 19418-0004
Housing	ALLOY 6060 and ZA4C1
Seal	TPV 8211-75
Power stud	Amphenol surlock plus series
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	IP65

FEATURES PC20 Circuits 230 x 170 x 86 Size mm connectors incl. Standard on all outputs Remote current trip reset System reset Optional Standard Status indicator 4 outputs By-pass Low volt sense & lock down Optional Pull down 9 outputs "H" Bridge capability 4 complete "H" bridges available Level sense input Dimming/PWM Features 8 inputs Available on 10 outputs Circuit status monitoring Optional Optional Field re-programmable External status communication Optional on the bus N.O. relay contact **Optional**





DIMENSIONS







