





PDM16

MoTeC's 16 output Power Distribution Module (PDM16) is designed to provide electronically switched power to the various electrical systems in the vehicle such as motors, lights and solenoids, and electronic devices such as ECUs and data acquisition systems.

The module replaces conventional relays, fuses and circuit breakers, simplifying wiring and reducing weight while increasing reliability.



Web	Item Number	Description
(j)	M PDM16	POWER DISTRIBUTION MODULE

Outputs

8 x 20 A outputs—20 A continuous, 115 A transient (typical)

8 x 8 A outputs—8 A continuous, 60 A transient (typical)

Inputs

12 x Switch inputs

Communications

1 x CAN

Diagnostic Information

Output current and voltages Input voltages Error status

Physical

Connectors 1 x 26 pin Autosport connector 1 x 1 pin Autosport connector 1 x 8 pin Autosport connector Case size 130 x 60 x 28 mm

Weight 300 grams General Features

Each output is over-current, short circuit and thermal overload protected

Outputs programmable in 1 A steps

Outputs controllable via a combination of switch inputs, CAN messages and logic functions

Switch inputs ranging from 0 to 51 V, resolution 0.2 V

Performing up to 200 logic operations using operators like Flash, Pulse, Set/Reset, Hysteresis, Toggle, And, Or, Less than, Greater than, Not equal to, Equal to, True, False etc.

Performing functions such as flashing indicator lights and controlling thermofan and fuel pump

Using logic functions to selectively turn off systems during low battery voltage or engine starting, reducing drain on the battery







MoTeC's 32 output Power Distribution Module (PDM32) is designed to provide electronically switched power to the various electrical systems in the vehicle such as motors, lights and solenoids, and electronic devices such as ECUs and data acquisition systems.

The module replaces conventional relays, fuses and circuit breakers, simplifying wiring and reducing weight while increasing reliability.

Web	Item Number	Description
(i)	M PDM32	POWER DISTRIBUTION MODULE

Outputs

8 x 20 A outputs - 20 A continuous, 115 A transient (typical) 24 x 8 A outputs - 8 A continuous, 60 A transient (typical)

Inputs

23 x Switch inputs

Communications

1 x CAN

Diagnostic Information

Output current and voltages Input voltages Error status

Physical

Connectors

- 1 x 37 pin Autosport connector
- 1 x 26 pin Autosport connector
- 1 x 1 pin Autosport connector
- 1 x 8 pin Autosport connector Case size 180 x 60 x 28 mm
- Weight 405 grams

General Features

Each output is over-current, short circuit and thermal overload protected

Outputs programmable in 1 A steps

Outputs controllable via a combination of switch inputs, CAN messages and logic functions

Switch inputs ranging from 0 to 51 V, resolution 0.2 V

Performing up to 200 logic operations using operators like Flash, Pulse, Set/Reset, Hysteresis, Toggle, And, Or, Less than, Greater than, Not equal to, Equal to, True, False etc.

Performing functions such as flashing indicator lights and controlling thermofan and fuel pump

Using logic functions to selectively turn off systems during low battery voltage or engine starting, reducing drain on the battery





PDM15

MoTeC's 15 output Power Distribution Module (PDM15) is designed to provide electronically switched power to the various electrical systems in the vehicle such as motors, lights and solenoids, and electronic devices such as ECUs and data acquisition systems.

The module replaces conventional relays, fuses and circuit breakers, simplifying wiring and reducing weight while increasing reliability.



Web	Item Number	Description
()	M PDM15	POWER DISTRIBUTION MODULE

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8 x 20 A outputs - 20 A continuous, 115 A transient (typical) 7 x 8 A outputs - 8 A continuous, 60 A transient (typical)

Inputs

16 x Switch inputs

Communications

1 x CAN

Diagnostic Information

Output current and voltages Input voltages

Error status

Physical

Connectors 1 x 34 pin waterproof connector 1 x 26 pin waterproof connector 1 x M6 stud Case size 108 x 128 x 39 mm Weight 260 grams

General Features

Each output is over-current, short circuit and thermal overload protected Outputs programmable in 1 A steps Outputs controllable via a combination of switch inputs, CAN messages and logic functions Switch inputs ranging from 0 to 51 V, resolution 0.2 V Performing up to 200 logic operations using operators like Flash, Pulse, Set/Reset, Hysteresis, Toggle, And, Or, Less than, Greater than, Not equal to, Equal to, True, False etc. Performing functions such as flashing indicator lights and controlling thermofan and fuel pump Using logic functions to selectively turn off systems during low battery voltage or engine starting, reducing drain on the battery







MoTeC's 30 output Power Distribution Module (PDM30) is designed to provide electronically switched power to the various electrical systems in the vehicle such as motors, lights and solenoids, and electronic devices such as ECUs and data acquisition systems.

The module replaces conventional relays, fuses and circuit breakers, simplifying wiring and reducing weight, while increasing reliability.



Web	Item Number	Description	
(i)	M PDM30	POWER DISTRIBUTION MODULE	

Outputs

8 x 20 A outputs - 20 A continuous, 115 A transient (typical) 22 x 8 A outputs - 8 A continuous, 60 A transient (typical)

Inputs

16 x Switch inputs

Communications

1 x CAN

Diagnostic Information

Output current and voltages Input voltages Error status

Physical

Connectors 1 x 34 pin waterproof connector 1 x 26 pin waterproof connector 1 x M6 stud Case size 108 x 128 x 39 mm Weight 270 grams

General Features

Each output is over-current, short circuit and thermal overload protected Outputs programmable in 1 A steps Outputs controllable via a combination of switch inputs, CAN messages and logic functions Switch inputs ranging from 0 to 51 V, resolution 0.2 V Performing up to 200 logic operations using operators like Flash, Pulse, Set/Reset, Hysteresis, Toggle, And, Or, Less than, Greater than, Not equal to, Equal to, True, False etc. Performing functions such as flashing indicator lights and controlling thermofan and fuel pump Using logic functions to selectively turn off systems during low battery voltage or engine starting, reducing drain on the battery



Dual Half Bridge (DHB)

MoTeC

The Dual Half Bridge (DHB) is a high current amplifier which allows low current auxiliary outputs to drive high current loads such as motors. It contains two high current half bridge outputs enabling it to drive a single motor in two directions, or drive two motors in a single direction. It is also capable of high speed PWM, which can be used for speed control of motors and for other purposes.

The DHB connects to any auxiliary output of a MoTeC ECU or Dash Logger, which performs the control function, such as PWM speed control, direction control or servo control.

The fully sealed case makes the DHB suitable for under bonnet mounting.

Application Examples

- Servo motor e.g. active wing control, boat trim control, inlet runner length control, variable valve lift.
- Motor speed control e.g. electric water pump, thermo fan, fuel pump.
- Solenoid control.



Web	Item Number	Description
(j)	M DHB	DUAL HALF BRIDGE

Compatible with
All MoTeC ECUs
All MoTeC Dash Loggers
Basic Specifications
Electrical
Output current
Continuous DC current 20 A (total)
Peak surge current 500 A
Max. operating frequency 50 kHz @ 28 V
Switching delay, typical
High to low 6.5 μsec
Low to high 6.5 µsec
Input threshold, typical
High 2.8 V
Low 2.1 V
Operating voltage
7.0 V to 55 V with under voltage lockout
Physical
Size 31.4 x 38.0 x 14.0 mm
Weight approximately 60 grams plus connectors
Connectors
Power: 2 pin DTP Male
Input: 2 pin DTM Malo
Maximum case temporature 125 °C
Maximum case temperature 125°C
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